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Service Manual

ORDER NO. ARP3312

PLASMA DISPLAY SYSTEM

PDP-506XDE PDP-436XDE

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Model | Туре | Power Requirement | Remarks |
|------------|------|-------------------|---------|
| PDP-506XDE | _ | AC220 - 240V | |
| PDP-436XDE | _ | AC220 - 240V | |

PDP-506XDE is combination of the following components.

| Component | | System | Service Manual | Remarks |
|-----------|----------------------|-------------------|------------------|--------------|
| Р | LASMA DISPLAY SYSTEM | PDP-506XDE | ARP3312 | This manual. |
| | PLASMA DISPLAY | PDP-506PE/WYVI | ARP3267 | |
| | MEDIA RECEIVER | PDP-R06XE/WYVIXK5 | ARP3275, ARP3276 | |
| | SPEAKER SYSTEM | PDP-S38/XIN/E5 | RRV3221 | |

• PDP-436XDE is combination of the following components.

| Component | | System | Service Manual | Remarks |
|----------------|---------------------|-------------------|------------------|--------------|
| PI | ASMA DISPLAY SYSTEM | PDP-436XDE | ARP3312 | This manual. |
| PLASMA DISPLAY | | PDP-436PE/WYVI | ARP3271 | |
| | MEDIA RECEIVER | PDP-R06XE/WYVIXK5 | ARP3275, ARP3276 | |
| | SPEAKER SYSTEM | PDP-S37/XTW/E5 | RRV3231 | |

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Service Manual



ORDER NO. ARP3267

PLASMA DISPLAY

PDP-506PU PDP-506PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Model | Туре | Power Requirement | Remarks |
|-----------|-------|-------------------|---------|
| PDP-506PE | WYVI | AC220 - 240V | |
| PDP-506PU | KUCXC | AC120V | |

Note:

Media Receivers up to Generation 5 (G5) cannot be connected with this unit. Be sure to use a Media Receiver of Generation 6 (G6) (ex.: PDP-R06**, etc.).



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

■ Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
 - 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
 - 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be

performed for the continued protection of the customer and

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

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PDP-506PE

Leakage Current Cold Check

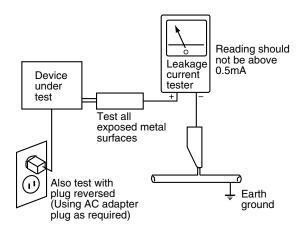
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3 M\Omega$ and a maximum resistor reading of $5 M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

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PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

B 1. Power Cord

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- 2. AC Inlet
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

If the procedures described in "7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM" are performed before the power is turned off, the voltage will be discharged in about 30 seconds.

| 1. POWER SUPPLY Unit | (205V) |
|----------------------|-----------------|
| 2. 50 X DRIVE Assy | (-180V to 205V) |
| 3. 50 Y DRIVE Assy | (500V) |
| 4. 50 SCAN A Assy | (500V) |
| 5. 50 SCAN B Assy | (500V) |
| 6. SUS CLAMP 1 Assy | (-180V to 205V) |
| 7. SUS CLAMP 2 Assy | (-180V to 205V) |

: Part is Charged Section.

 Part is the High Voltage Generating Points other than the Charged Section.

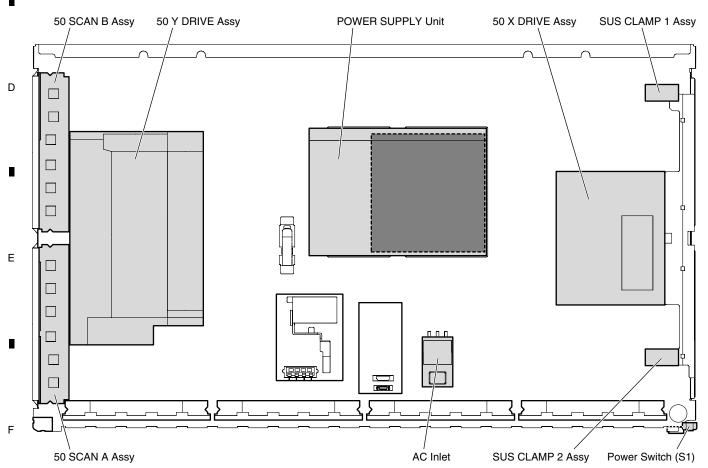


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

1) Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

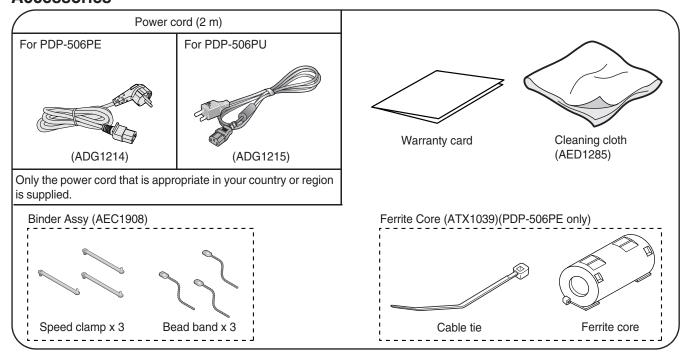
| Item | 50" Plasma Display, Model: PDP-506PE | 50" Plasma Display, Model: PDP-506PU | |
|-------------------|---|---|--|
| Number of Pixels | 1280 × 768 pixels | 1280 × 768 pixels | |
| Audio Amplifier | 13 W + 13 W (1 kHz, 10 %, 8Ω) | 13 W + 13 W (1 kHz, 10 %, 8Ω) | |
| Surround System | SRS/FOCUS/TruBass | SRS/FOCUS/TruBass | |
| Power Requirement | 220 - 240 V AC, 50/60 Hz, 344 W (0.4 W Standby) | 120 V AC, 60 Hz, 355 W (0.2 W Standby) | |
| Dimensions | 1224 (W) × 717 (H) × 92 (D) mm | 1224 (W) × 717 (H) × 92 (D) mm (48 3/16 (W) × 28 1/4 (H) × 3 5/8 (D) inches) | |
| Weight | 31.8 kg (70.1 lbs.) | 31.8 kg (70.1 lbs.) | |

• Design and specifications are subject to change without notice.

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Accessories



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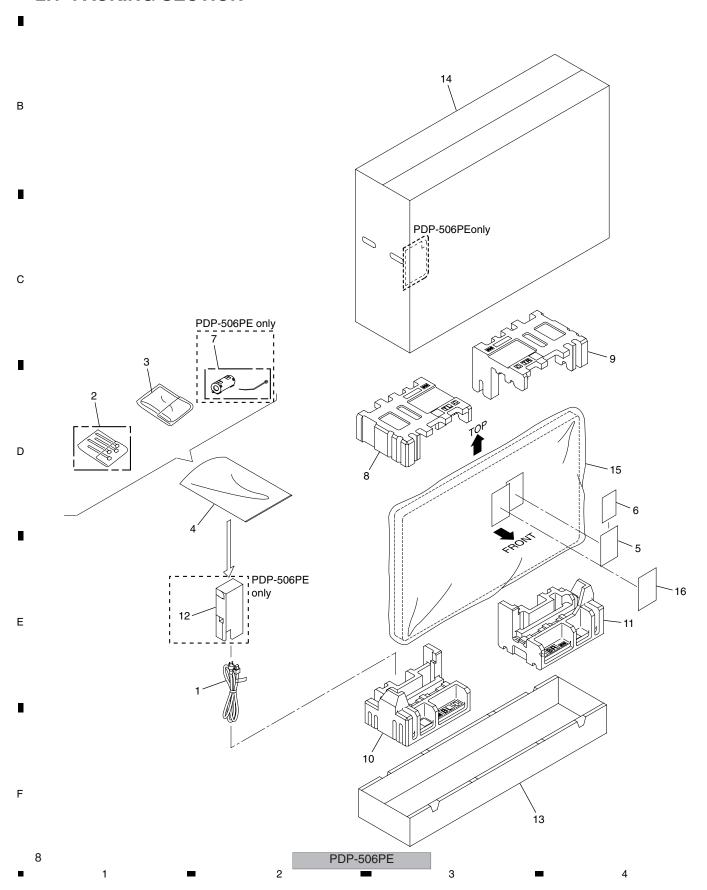
2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING SECTION

Α



(1) PACKING SECTION PARTS LIST

| Mark | <u>No.</u> | <u>Description</u> | Part No. |
|----------|------------|--------------------|------------------------|
| <u> </u> | 1 | Power Cord | See Contrast table (2) |
| | 2 | Binder Assy | AEC1908 |
| | 3 | Cleaning Cloth | AED1285 |
| | 4 | Polyethylene Bag S | See Contrast table (2) |
| NSP | 5 | Catalogue Bag | See Contrast table (2) |
| NSP | 6 | Warranty card | See Contrast table (2) |
| ₫. | 7 | Ferrite Core | See Contrast table (2) |
| | 8 | Pad (50T-L) | See Contrast table (2) |
| | 9 | Pad (50T-R) | See Contrast table (2) |
| | 10 | Pad (50B-L) | See Contrast table (2) |
| | 11 | Pad (50B-R) | See Contrast table (2) |
| | 12 | Power Cord Case | See Contrast table (2) |
| | 13 | Under Carton | See Contrast table (2) |
| | 14 | Upper Carton | See Contrast table (2) |
| | 15 | Mirror Mat | See Contrast table (2) |
| | 16 | Caution Card | See Contrast table (2) |

(2) CONTRAST TABLE

PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-506PE/WYVI | PDP-506PU/KUCXC |
|----------|-----|------------------------|----------------|-----------------|
| <u> </u> | 1 | Power Cord | ADG1214 | ADG1215 |
| | 4 | Polyethylene Bag S | AHG1338 | AHG1348 |
| NSP | 5 | Catalogue Bag | AHG1340 | AHG1347 |
| NSP | 6 | Warranty Card | ARY1114 | ARY1145 |
| <u> </u> | 7 | Ferrite Core | ATX1039 | Not used |
| | 8 | Pad (50T-L) | AHA2427 | AHA2459 |
| | 9 | Pad (50T-R) | AHA2428 | AHA2460 |
| | 10 | Pad (50B-L) | AHA2429 | AHA2461 |
| | 11 | Pad (50B-R) | AHA2430 | AHA2462 |
| | 12 | Power Cord Case | AHC1073 | Not used |
| | 13 | Under Carton (50) | AHD3344 | Not used |
| | 13 | Under Carton (506PU) | Not used | AHD3379 |
| | 14 | Upper Carton (506PE) | AHD3345 | Not used |
| | 14 | Upper Carton (506PU) | Not used | AHD3383 |
| | 15 | Mirror Mat | AHG1284 | AHG1352 |
| | 16 | Caution Card | ARM1232 | ARM1239 |

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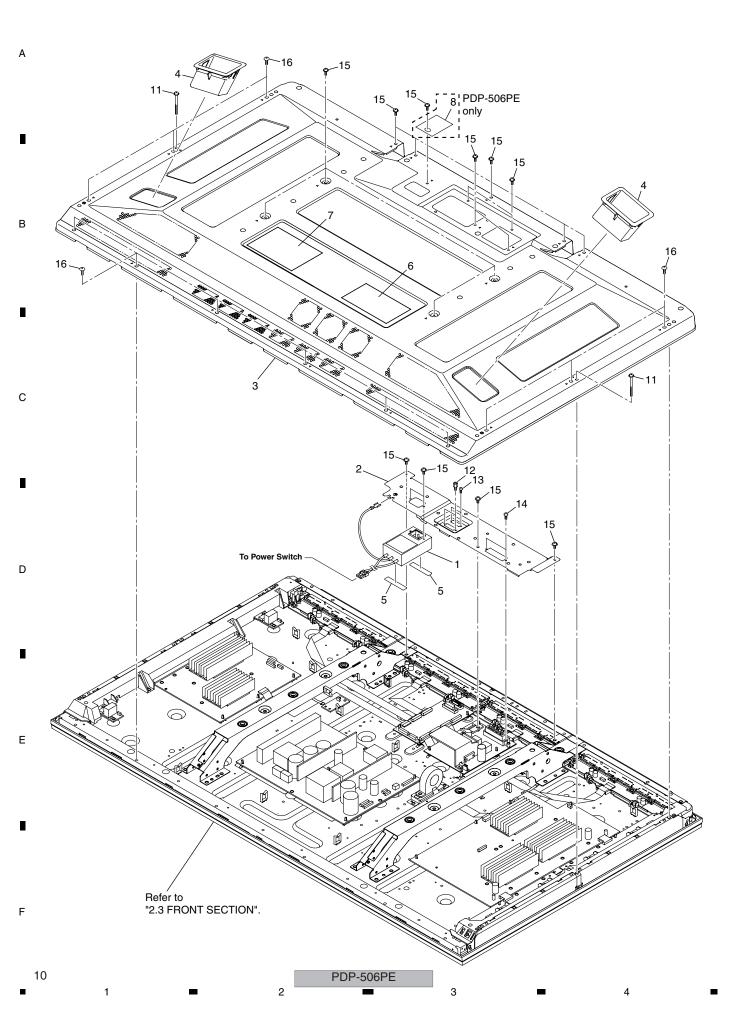
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(1) REAR SECTION PARTS LIST

| Mark N | lo. | <u>Description</u> | Part No. | |
|----------|-----|--------------------|------------------------|---|
| <u> </u> | 1 | AC Inlet | AKP1274 | |
| | 2 | Control Plate | AND1185 | Α |
| | 3 | Rear Case (506) | ANE1639 | |
| | 4 | Inner Grip Assy | AMR3434 | |
| | 5 | AC Cushion | AEC2035 | |
| NSP | 6 | Model Label | See Contrast table (2) | |
| | 7 | Caution Label | See Contrast table (2) | |
| | 8 | AC Label PE | See Contrast table (2) | |
| | 9 | •••• | | |
| 1 | 10 | •••• | | |
| 1 | 11 | Screw (3 x 40P) | ABA1332 | В |
| 1 | 12 | Hexagon Head Screw | BBA1051 | |
| 1 | 13 | Screw | PMZ26P060FTB | |
| 1 | 14 | Screw | BPZ30P080FTB | |
| 1 | 15 | Screw | AMZ30P060FTB | |
| 1 | 16 | Screw | TBZ40P080FTB | |

(2) CONTRAST TABLE
PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-506PE/WYVI | PDP-506PU/KUCXC |
|------|-----|------------------------|----------------|-----------------|
| NSP | 6 | Model Label (506PE) | AAL2661 | Not used |
| NSP | 6 | Model Label (506PU) | Not used | AAL2679 |
| | 7 | Caution Label | AAX3117 | AAX3075 |
| | 8 | AC Label PE | AAX3194 | Not used |

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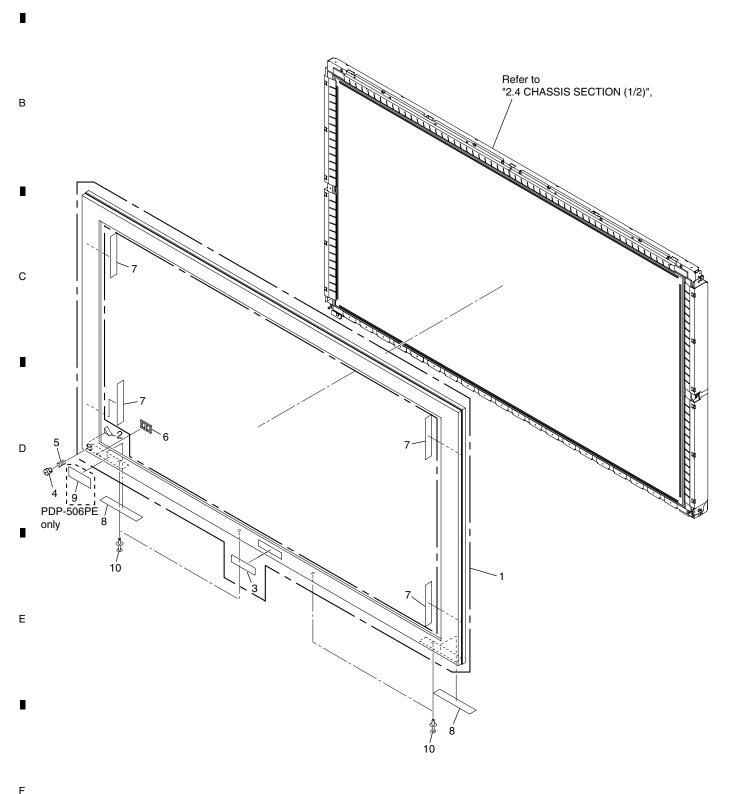
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PDP-506PE

(1) FRONT SECTION PARTS LIST

| Mark N | o. <u>Description</u> | Part No. | |
|--------|---------------------------|------------------------|--|
| | Front Case Assy (506PE) | AMB2861 | |
| | 2 Corner Cushion | AEB1416 | |
| | Pioneer Name Plate | AAM1098 | |
| | Power Button | AAD4133 | |
| | 5 Coil Spring | ABH1120 | |
| | Blind Cushion | AEB1415 | |
| | 7 Insulation Sheet A | AED1283 | |
| | Insulation Sheet B | AED1284 | |
| | Power Display Label (506) | See Contrast table (2) | |
| - | 0 Screw Rivet | AEC1877 | |

(2) CONTRAST TABLE

PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-506PE/WYVI | PDP-506PU/KUCXC |
|------|-----|---------------------------|----------------|-----------------|
| | 9 | Power Display Label (506) | AAX3217 | Not used |

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| Mark | No. | Description | Part No. | | | |
|----------|-----|---------------------------|--------------|--|--|--|
| | 1 | HD LED Assy | AWW1029 | | | |
| | 2 | HD IR Assy | AWW1030 | | | |
| <u> </u> | 3 | Power Switch (S1) | ASG1092 | | | |
| | 4 | Housing Wire (50)(J103) | ADX3112 | | | |
| | 5 | Front Chassis VL (50) | AMA1014 | | | |
| | 6 | Front Chassis VR (50) | AMA1015 | | | |
| | 7 | Sub Frame L Assy (506) | ANA1860 | | | |
| | 8 | Sub Frame R Assy (506) | ANA1861 | | | |
| | 9 | Front Chassis H Assy (50) | ANA1883 | | | |
| | 10 | Panel Holder H (50) | ANG2769 | | | |
| | 11 | Panel Holder V1 (50) | ANG2770 | | | |
| | 12 | Panel Holder V2 (50) | ANG2771 | | | |
| | 13 | Cushion | AEB1424 | | | |
| | 14 | Wire Saddle | AEC1745 | | | |
| | 15 | •••• | | | | |
| | 16 | Nyron Rivet | AEC1671 | | | |
| | 17 | Screw | ABZ30P080FTC | | | |
| | 18 | Screw | AMZ30P060FTB | | | |
| | 19 | Screw | APZ30P080FTB | | | |
| | 20 | Screw | BBZ30P060FTC | | | |
| | 21 | Screw | BPZ30P080FTB | | | |
| | 22 | Screw | TBZ40P080FTB | | | |
| | 23 | Screw | VBB30P080FNI | | | |

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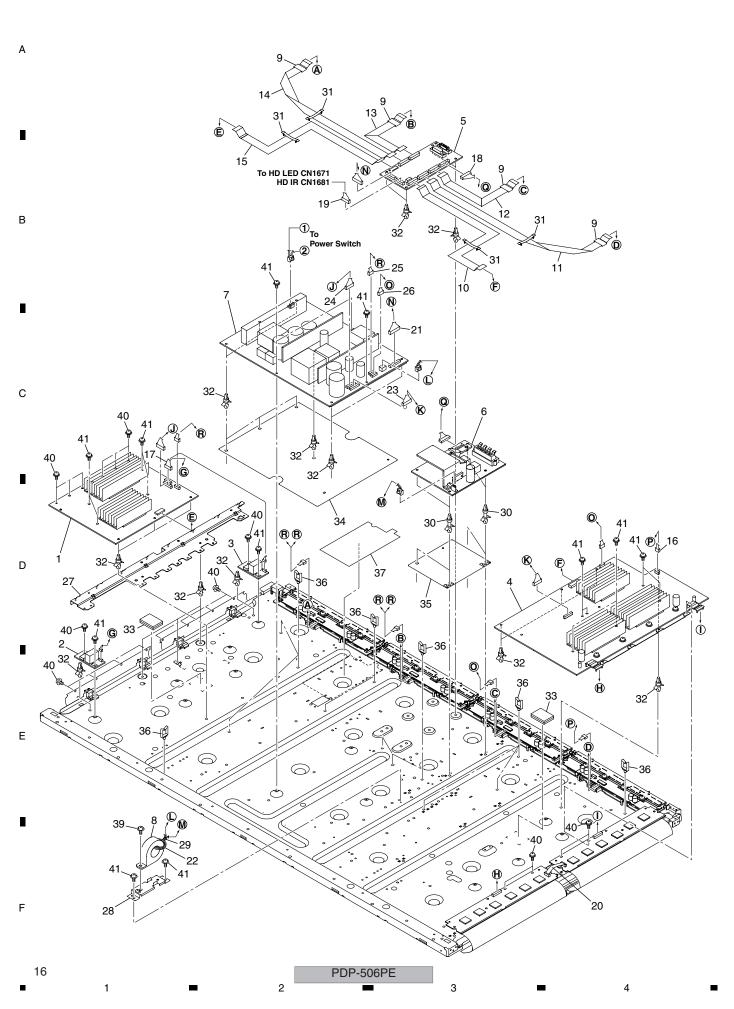
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PDP-506PE



(1) CHASSIS SECTION (2/2) PARTS LIST

| Mark No. | <u>Description</u> | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------|-------------------------|------------------------|----------|-------------------------------|--------------|---|
| 1 | 50 X DRIVE Assy | See Contrast table (2) | 21 | 14P Housing Wire (J104) | ADX3158 | |
| 2 | SUS CLAMP 1 Assy | AWW1022 | 22 | 3P Housing Wire (J105) | ADX3159 | Α |
| 3 | SUS CLAMP 2 Assy | AWW1023 | 23 | 9P Housing Wire (J101) | ADX3186 | |
| 4 | 50 Y DRIVE Assy | See Contrast table (2) | 24 | 8P Housing Wire (J102) | ADX3187 | |
| 5 | HD DIGITAL Assy | AWW1028 | 25 | 5P Housing Wire (J106) | ADX3188 | |
| 6 | HD AUDIO Assy | AWV2203 | 26 | 6P Housing Wire (J107) | ADX3189 | _ |
| <u> </u> | POWER SUPPLY Unit | AXY1112 | 27 | Conductive Plate XA | ANG2776 | |
| 8 | Ring Core with Case | ATX1042 | 28 | FC Stay | ANG2815 | |
| 9 | Ferrite Core | ATX1048 | 29 | Binder | AEC-093 | |
| 10 | Flexible Cable (J201) | ADD1293 | NSP 30 | PCB Spacer | AEC1188 | |
| 11 | Flexible Cable (J202) | ADD1294 | 31 | Flat Clamp | AEC1879 | В |
| 12 | Flexible Cable (J203) | ADD1295 | 32 | PCB Spacer | AEC1941 | |
| 13 | Flexible Cable (J204) | ADD1296 | 33 | Drive Silicone Sheet | AEH1095 | |
| 14 | Flexible Cable (J205) | ADD1297 | 34 | Power Supply Insulation Sheet | AMR3447 | |
| 15 | Flexible Cable (J206) | ADD1298 | 35 | Audio Insulation Sheet | AMR3469 | |
| 16 | 4P Housing Wire (J108) | ADX3117 | 36 | Wire Saddle | AEC1745 | |
| 17 | 6P Housing Wire (J109) | See Contrast table (2) | NSP 37 | Address Sheet | AMR3491 | |
| 18 | 12P Housing Wire (J110) | See Contrast table (2) | 38 | •••• | | |
| 19 | 6P Housing Wire (J111) | ADX3120 | 39 | Screw | ABA1324 | |
| 20 | 3P Housing Wire (J113) | See Contrast table (2) | 40 | Screw | PMB30P060FTC | С |
| | | | 41 | Screw | VBB30P080FNI | • |

(2) CONTRAST TABLE

PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

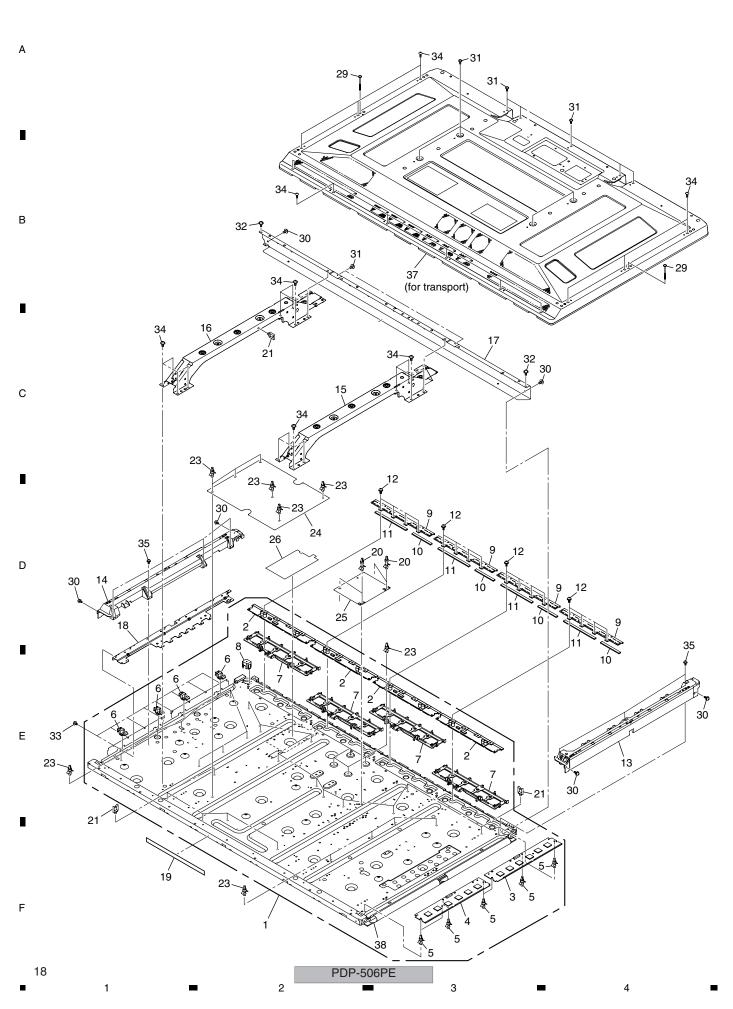
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|------|-----|-------------------------|----------------|--------------------|---|
| Mark | No. | Symbol and Description | PDP-506PE/WYVI | PDP-506PU/KUCXC | D |
| | 1 | 50 X DRIVE Assy | AWW1075 | AWW1020 or AWW1075 | |
| | 4 | 50 Y DRIVE Assy | AWV2258 | AWV2210 or AWV2258 | |
| | 17 | 6P Housing Wire (J109) | ADX3118 | ADX3132 | |
| | 18 | 12P Housing Wire (J110) | ADX3119 | ADX3133 | |
| | 20 | 3P Housing Wire (J113) | ADX3122 | ADX3136 | |
| | | | | | |

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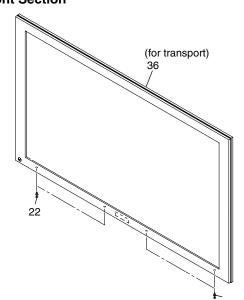
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PDP-506PE

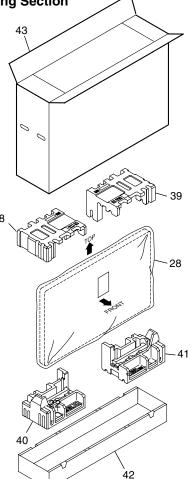
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• Front Section



Packing Section



Note when replacing with the PDP Service Assy 506P

The Power Switch (S1), HD LED Assy, and HD IR Assy are not included in the PDP Service Assy 506P. Before replacement with the PDP Service Assy 506P, the following components of the Service Assy must be temporarily detached to attach the above-mentioned parts (parts from the original unit or newly purchased):

- Front Chassis H Assy (50) (ANA1883)
- Front Chassis VL (50) (AMA1014)
- Front Chassis VR (50) (AMA1015)

PDP SERVICE ASSY 506P (AWU1134) PARTS LIST

| PDP SER | RVICE ASSY 506P (AWU | 1134) PARTS | LIST | | |
|----------|---------------------------|--------------|----------|--------------------------------|--------------|
| Mark No. | Description | Part No. | Mark No. | <u>Description</u> | Part No. |
| NSP 1 | Panel Chassis (506) Assy | AWU1143 | 23 | PCB Spacer | AEC1941 |
| NSP 2 | 50 ADDRESS Assy | AWV2208 | 24 | Power Supply Insulation Sheet | AMR3447 |
| NSP 3 | 50 SCAN A Assy | AWW1026 | 25 | Audio Insulation Sheet | AMR3469 |
| NSP 4 | 50 SCAN B Assy | AWW1027 | | | |
| 5 | PCB Spacer | AEC1944 | NSP 26 | Address Sheet | AMR3491 |
| | | | NSP 27 | Chassis Assy (50) | ANA1830 |
| 6 | Conductive Plate Holder | AMR3446 | 28 | Protect Sheet | AHG1331 |
| 7 | ADDRESS Holder Assy (50) | AMR3454 | 29 | Screw (3 x 40P) | ABA1332 |
| 8 | Tube Cover | AMR3445 | 30 | Screw | ABZ30P080FTC |
| 9 | Address Heatsink (50) | ANH1635 | | | |
| 10 | Address Silicone A | AEH1093 | 31 | Screw | AMZ30P060FTB |
| | | | 32 | Screw | APZ30P080FTB |
| 11 | Address Silicone B | AEH1094 | 33 | Screw | PMB30P060FTC |
| 12 | Screw | BBB30P120FNI | 34 | Screw | TBZ40P080FTB |
| 13 | Front Chassis VL (50) | AMA1014 | 35 | Screw | VBB30P080FNI |
| 14 | Front Chassis VR (50) | AMA1015 | | | |
| 15 | Sub Frame L Assy (506) | ANA1860 | NSP 36 | Front Case Assy (506 serivice) | AMB2889 |
| | | | | (for transport) | |
| 16 | Sub Frame R Assy (506) | ANA1861 | NSP 37 | Rear Case (506) | ANE1639 |
| 17 | Front Chassis H Assy (50) | ANA1883 | | (for transport) | |
| 18 | Conductive Plate XA | ANG2776 | 38 | Pad (50T-L) | AHA2427 |
| 19 | Cushion | AEB1424 | 39 | Pad (50T-R) | AHA2428 |
| NSP 20 | PCB Spacer | AEC1188 | 40 | Pad (50B-L) | AHA2429 |
| | | | | | |
| 21 | Wire Saddle | AEC1745 | 41 | Pad (50B-R) | AHA2430 |
| 22 | Screw Rivet | AEC1877 | 42 | Under Carton | AHA3344 |
| | | | 43 | Upper Carton (506 S.V.C) | AHA3430 |
| | | | | | |

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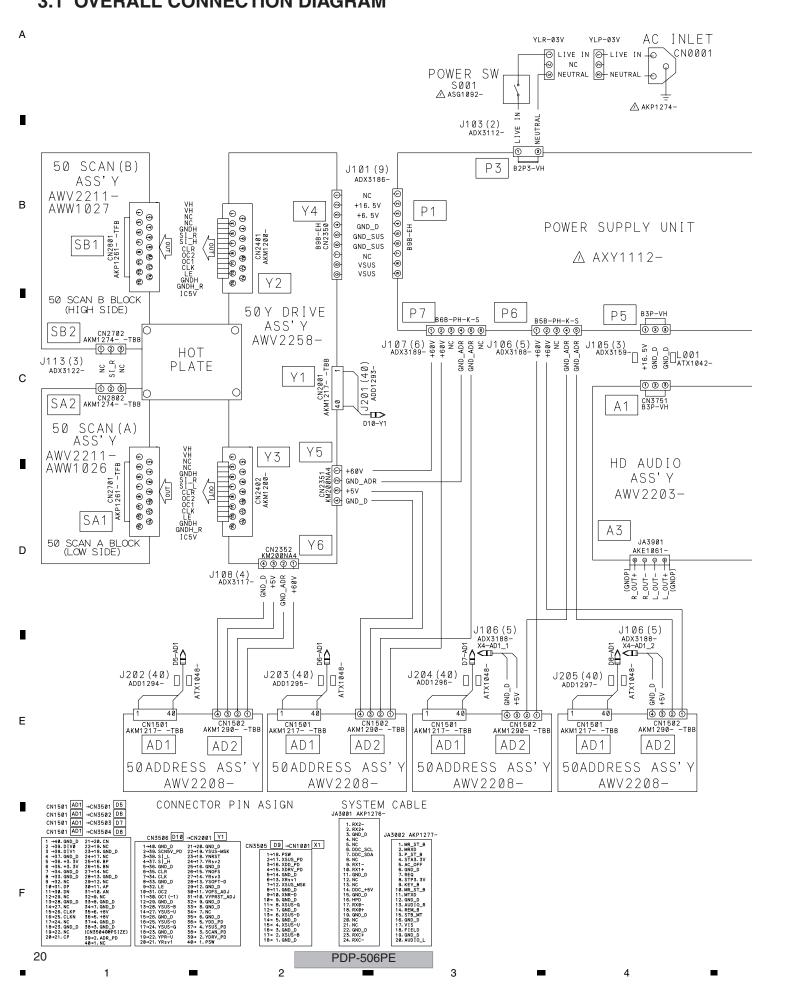
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PDP-506PE

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM 3.1 OVERALL CONNECTION DIAGRAM

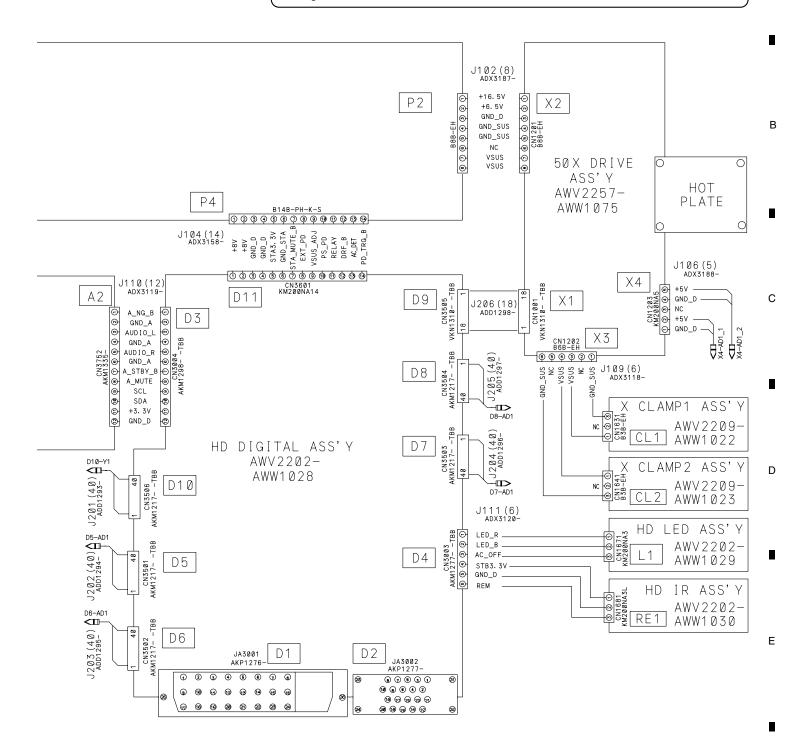


 When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

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• The <u>Mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.</u>



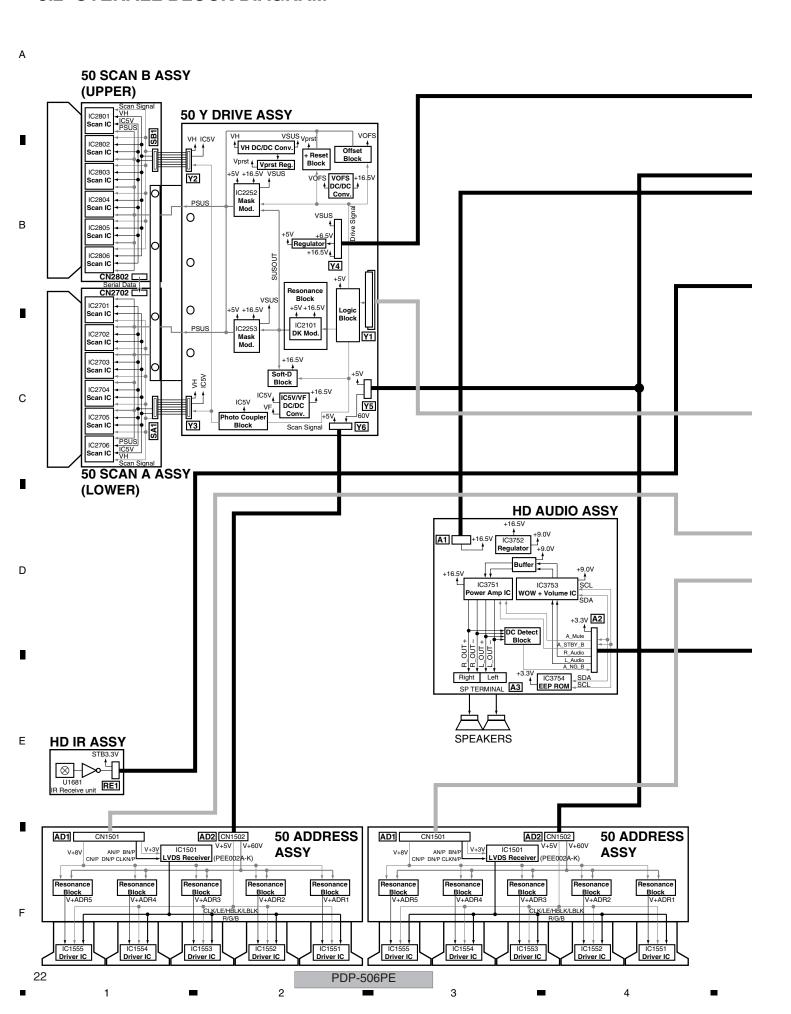
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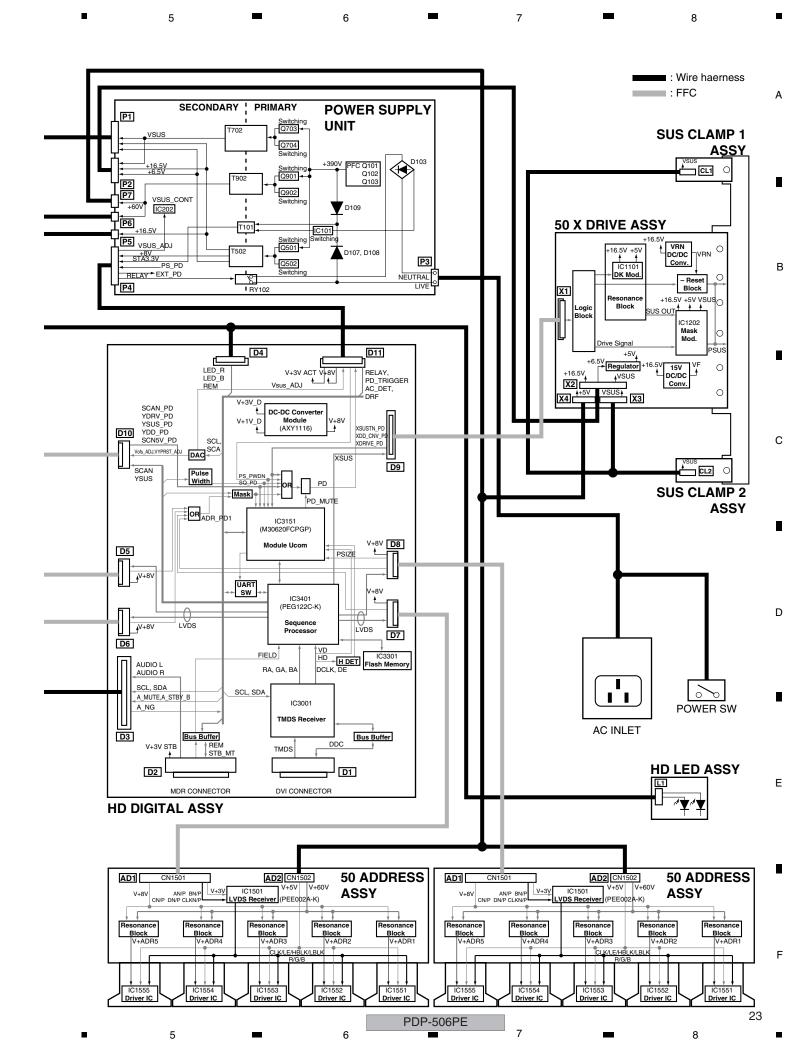
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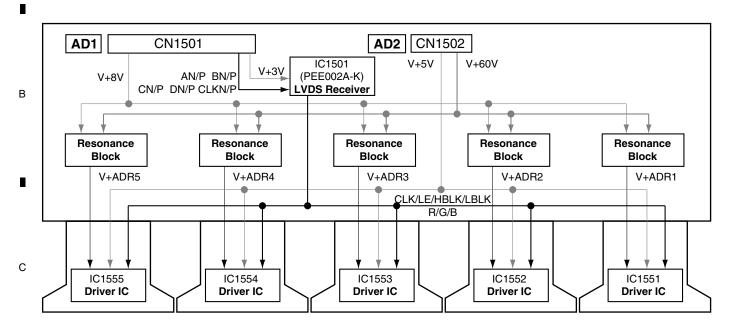
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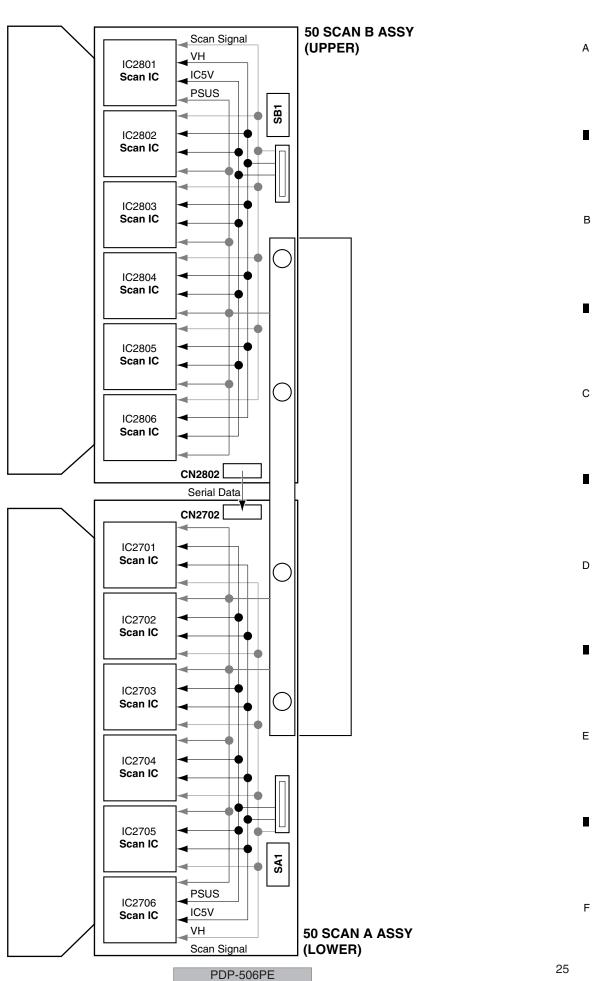
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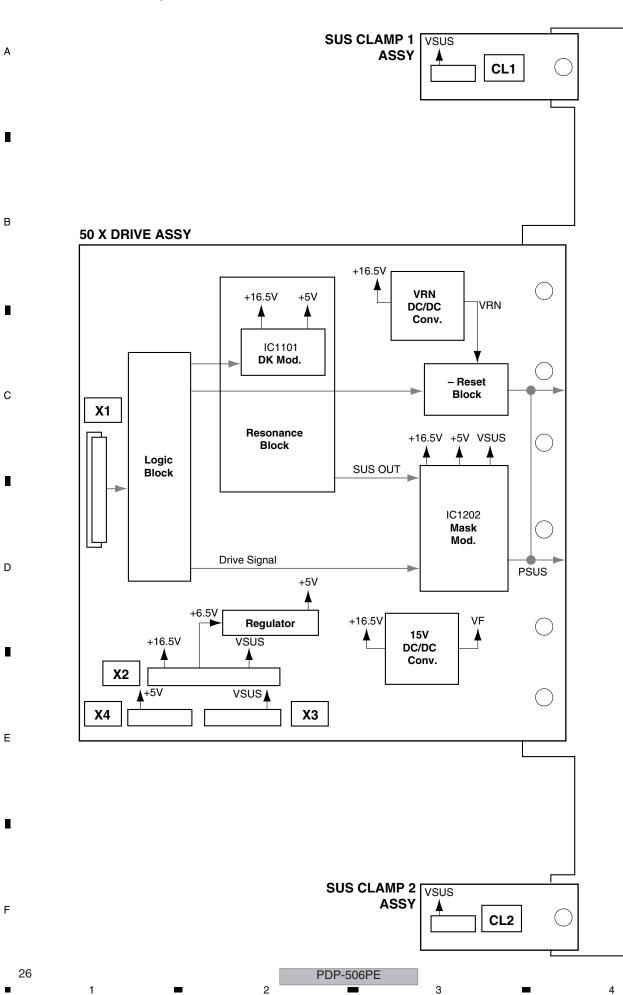
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PDP-506PE

3.4 50 SCAN A and B ASSYS



3.5 50 X DRIVE, SUS CLAMP 1 and SUS CLAMP 2 ASSYS



PDP-506PE

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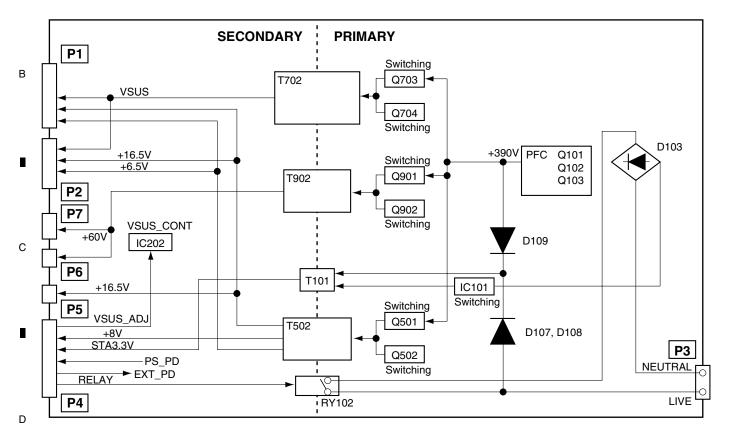
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SPEAKERS



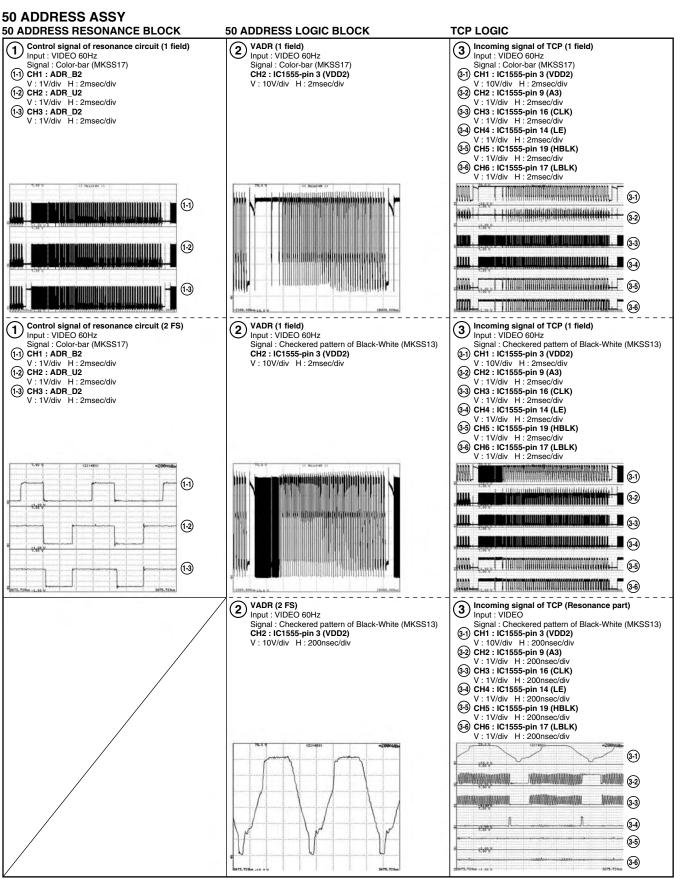
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PDP-506PE

Note: The encircled numbers denote measuring point in the schematic diagram. Refer to service manual (ARP3268).



PDP-506PE

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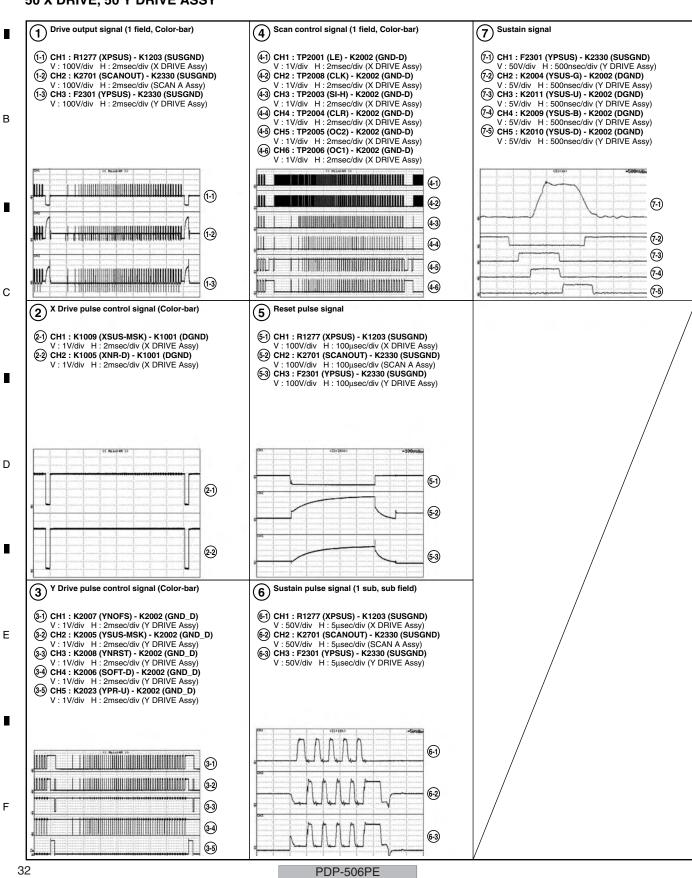
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50 X DRIVE, 50 Y DRIVE ASSY



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5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

 Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \dots RN1/4PC[5][6][2][1]F$

■ LIST OF WHOLE PCB ASSEMBLIES

| Mark | Symbol and Description | PDP-506PE /WYVI | PDP-506PU /KUCXC |
|----------|---------------------------|--------------------|---------------------|
| NSP | 1PANEL CHASSIS (506) ASSY | AWU1143 | AWU1143 |
| NSP | 250 ADDRESS ASSY | AWV2208 | AWV2208 |
| NSP | 250 SCAN ASSY | AWV2211 | AWV2211 |
| NSP | 350 SCAN A ASSY | AWW1026 | AWW1026 |
| NSP | 350 SCAN B ASSY | AWW1027 | AWW1027 |
| NSP | 150 X DRIVE ASSY | AWV2257 | AWV2209 or AWV2257 |
| | 250 X DRIVE ASSY | AWW1075 | AWW1020 or AWW1075 |
| | 2SUS CLAMP 1 ASSY | AWW1022 | AWW1022 |
| | 2SUS CLAMP 2 ASSY | AWW1023 | AWW1023 |
| | 150 Y DRIVE ASSY | AWV2258 | AWV2210 or AWV2258 |
| NSP | 1HD DIGITAL ASSY | AWV2202 | AWV2202 |
| | 2HD DIGITAL ASSY | AWW1028 | AWW1028 |
| | 2HD LED ASSY | AWW1029 | AWW1029 |
| | 2HD IR ASSY | AWW1030 | AWW1030 |
| | 1HD AUDIO ASSY | AWV2203 | AWV2203 |
| <u> </u> | 1POWER SUPPLY UNIT | AXY1112 | AXY1112 |

50 X DRIVE ASSY

AWW1075 and AWW1020 are constructed the same except for the following:

| Mark | Symbol and Description | AWW1075 | AWW1020 |
|------|---------------------------|-------------------------|------------------------|
| | IC1101 | AXF1142 | AXF1155 |
| | C1101 | ACG1112 (0.22U/250V) | ACG1088 (0.1U/250V) |
| | C1106-C1110 | Not used | ACE1178 |
| | C1112, C1113 (0.22U/250V) | ACG1112 | Not used |
| | C1161-C1164, C1166 | ACE1168 | Not used |
| | C1297, C1298 (3300p/630V) | ACG1129 | Not used |

50 Y DRIVE ASSY

AWV2258 and AWV2210 are constructed the same except for the following:

| Mark | Symbol and Description | AWV2258 | AWV2210 |
|------|---------------------------|-------------------------|-------------------------|
| | IC2101 | AXF1142 | AXF1155 |
| | C2103 | ACG1112 (0.22U/250V) | ACG1088 (0.1U/250V) |
| | C2107, C2108 (0.22U/250V) | ACG1112 | Not used |
| | C2131-C2134, C2136 | ACE1168 | ACE1178 |
| | C2271 | ACG1124 (0.1U/100V) | ACG1118 (0.33U/100V) |
| | C2272 (0.1U/100V) | ACG1124 | Not used |

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1 2 3 3 E PCB PARTS LIST FOR PDP-506PE/WYVI UNLESS OTHER WISE NOTED

| | PCB PARTS LIST FOR P | DP-300PE/WYVI | UNLESS OTHER WISE NOTED | |
|---|---------------------------------|---------------|-------------------------------|------------------|
| | Mark No. Description | Part No. | Mark No. Description | Part No. |
| | 50 ADDRESS ASSY | | <u>CAPACITORS</u> | |
| Α | [50 ADR LOGIC BLOCK] | | C2701,C2711,C2721 (0.1U/250V) | ACG1088 |
| | | | C2731,C2741,C2751 (0.1U/250V) | ACG1088 |
| | <u>SEMICONDUCTORS</u> | | C2710,C2720,C2730,C2740,C2750 | CCSRCH181J50 |
| | IC1501 | PEE002A | C2760 | CCSRCH181J50 |
| | | | C2708,C2709,C2718,C2719 | CCSRCH331J50 |
| | COILS AND FILTERS | | | |
| | L1504 CHIP SOLID INDUCTOR | QTL1013 | C2728,C2729,C2738,C2739 | CCSRCH331J50 |
| - | | | C2748,C2749,C2758,C2759 | CCSRCH331J50 |
| | <u>CAPACITORS</u> | | C2705-C2707,C2715-C2717 | CCSRCH390J50 |
| | C1501,C1502 | CKSRYB105K6R3 | C2725-C2727,C2735-C2737 | CCSRCH390J50 |
| | C1509,C1510 | CKSSYB102K50 | C2745-C2747,C2755-C2757 | CCSRCH390J50 |
| | C1503-C1507,C1551-C1555 | CKSSYF104Z16 | 00700 00740 00700 00700 00740 | OLODA DA OFICODO |
| _ | | | C2703,C2713,C2723,C2733,C2743 | CKSRYB105K6R3 |
| В | <u>RESISTORS</u> | | C2753 | CKSRYB105K6R3 |
| | R1530,R1531 | RS1/16S0R0J | DECICTORS | |
| | R1505-R1509 | RS1/16SS1000F | RESISTORS | |
| | Other Resistors | RS1/16SS###J | R2705,R2710,R2713,R2716,R2719 | RAB4C221J |
| | | | R2722 | RAB4C221J |
| | <u>OTHERS</u> | | Other Resistors | RS1/16S###J |
| | CN1501 40P CONNECTOR | AKM1217 | OTHERO | |
| | CN1502 PH CONNECTOR 4P | AKM1290 | <u>OTHERS</u> | |
| | | | CN2702 PH CONNECTOR 3P | AKM1274 |
| | | | CN2701 13P BRIDGE CONNECTOR | AKP1261 |
| | [50 ADR RESONANCE BLOCK] | | | |
| | <u>SEMICONDUCTORS</u> | | | |
| С | IC1601,IC1602 | TND307TD | 50 SCAN B ASSY | |
| | Q1613 | 2SA1163 | | |
| | Q1614-Q1616 | HAT1110R | <u>SEMICONDUCTORS</u> | |
| | Q1606,Q1608,Q1611 | QSZ2 | IC2801-IC2806 | AN16025A |
| | Q1612 | RN1901 | IC2807 | TC7SH08FUS1 |
| | | | D2801-D2807 | 1SS355 |
| | Q1601-Q1605 | SP8M41 | | |
| _ | D1612 | 1SS302 | <u>CAPACITORS</u> | |
| | D1625-D1629 | 1SS355 | C2801,C2811,C2821 (0.1U/250V) | ACG1088 |
| | D1631-D1650 | EP05FA20 | C2831,C2841,C2851 (0.1U/250V) | ACG1088 |
| | D1601,D1605,D1607,D1610,D1613 | UDZS15(B) | C2810,C2820,C2830,C2840,C2850 | CCSRCH181J50 |
| | D1616,D1620,D1622 | UDZS15(B) | C2860 | CCSRCH181J50 |
| D | D 1010,D1020,D1022 | OD2013(D) | C2808,C2809,C2818,C2819 | CCSRCH331J50 |
| _ | COILS AND FILTERS | | C2828,C2829,C2838,C2839 | CCSRCH331J50 |
| | L1601-L1605 SMD COIL | ATH1163 | C2848,C2849,C2858,C2859 | CCSRCH331J50 |
| | E1001-E1003 GIVID GOIL | AITTIOO | C2805-C2807,C2815-C2817 | CCSRCH390J50 |
| | CAPACITORS | | C2825-C2827,C2835-C2837 | CCSRCH390J50 |
| | C1609 (0.1U/100V) | ACG1098 | C2845-C2847,C2855-C2857 | CCSRCH390J50 |
| | C1601,C1606,C1610 (0.068U/100V) | ACG1123 | | |
| _ | C1611,C1614 (0.068U/100V) | ACG1123 | C2803,C2813,C2823,C2833,C2843 | CKSRYB105K6R3 |
| | C1602-C1605 (56UF/80V) | ACH1405 | C2853,C2861 | CKSRYB105K6R3 |
| | C1613 | CKSRYB104K25 | | |
| | | | <u>RESISTORS</u> | |
| | C1619 | CKSYB105K16 | R2803,R2808,R2811,R2814,R2817 | RAB4C221J |
| Е | | | R2820 | RAB4C221J |
| _ | <u>RESISTORS</u> | | Other Resistors | RS1/16S###J |
| | R1606,R1611,R1613,R1621 | RS1/16SS###J | | |
| | Other Resistors | RS1/16S###J | <u>OTHERS</u> | |
| | | | CN2802 PH CONNECTOR 3P | AKM1274 |
| | | | CN2801 13P BRIDGE CONNECTOR | AKP1261 |
| | EO SCAN A ACCY | | | |
| | 50 SCAN A ASSY | | | |
| | <u>SEMICONDUCTORS</u> | | 50 X DRIVE ASSY | |
| | IC2701-IC2706 | AN16025A | | |
| | D2701-D2707 | 1SS355 | [50X LOGIC BLOCK] | |
| | | | <u>SEMICONDUCTORS</u> | |
| F | | | IC1001 | TC74ACT541FT |
| | | | IC1002 | TC74VHC00FTS1 |
| | | | | |

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PDP-506PE

| CAPACITORS C1003 C1001,C1002 | Part No. CEHAT470M16 | Mark No. Description CAPACITORS | Part No. | |
|---|---------------------------|--|----------------------------|-----|
| C1003 | CEHAT470M16 | | | |
| | CEHAT470M16 | 0.0 | | |
| C1001,C1002 | | C1214-C1217 | ACE1178 | |
| | CKSRYB104K16 | C1212,C1213 | ACH1423 | |
| SECIOTORO | | C1231 | CEHAT101M10 | F |
| RESISTORS | DAD 40 470 I | C1206 C1283 | CEHAT101M25 CEHAT2R2M2E | |
| R1001,R1003 R1008,R1009 | RAB4C470J RAB4C472J | 01200 | OLITATZITZIVIZE | |
| Other Resistors | RS1/16S###J | C1208 | CEHAT470M16 | |
| Other resistors | 1101/100###0 | C1222,C1272 | CEHAT470M25 | |
| OTHERS | | C1221 | CKSRYB105K6R3 | |
| CN1001 18P FFC CONNECTOR | VKN1310 | C1204,C1207,C1223,C1251,C1253 | CKSRYF104Z50 | - |
| | | C1273 | CKSRYF104Z50 | |
| EOV DESCNANCE DI OCKI | | C1220 | CKSYB105K25 | |
| 50X RESONANCE BLOCK] SEMICONDUCTORS | | | | |
| | AVE1140 | <u>RESISTORS</u> | | ı |
| IC1101 IC1141 | AXF1142 BA10393F | R1204 | ACN1166 | |
| Q1141 | 2SC4116 | R1213 | ACN1168 | |
| D1101-D1105 | D1FL40 | R1276,R1277 | RS3LMF470J | |
| | | Other Resistors | RS1/16S###J | |
| COILS AND FILTERS | | OTHERS | | |
| L1103,L1104 CHOKE COIL | ATH1119 | KN1201-KN1206 GROUND PLATE | ANK-142 | |
| L1101,L1102 CHOKE COIL | ATH1187 | KN1208-KN1211 GROUND PLATE | ANK-142 | _ |
| L1105,L1106 CHOKE COIL | ATH1187 | CN1202 6P TOP POST | B6B-EH | |
| A DA CITODE | | CN1201 8P TOP POST | B8B-EH | |
| CAPACITORS - 0.1464 | ACE1160 | | | |
| C1161-C1164,C1116 (3.3U/250V) C1101,C1112,C1113 (0.22U/250V) | ACE1168 ACG1112 | | | |
| C1121 (470p/630V) | ACG1112 ACG1126 | [50X D-D CON BLOCK] | | C |
| C1105 | CCG1186 | <u>SEMICONDUCTORS</u> | | |
| C1141,C1142,C1144,C1145 | CKSRYB104K16 | IC1321 | PS2701A-1(L) | |
| | | IC1326 | TA76431FR | |
| C1102,C1146 | CKSRYB105K6R3 | Q1324 Q1302 | 2SA1037K 2SC4081 | |
| C1103 | CKSYB105K25 | Q1301,Q1323 | 2SD1898 | _ |
| RESISTORS | | · | | |
| R1101 | ACN1168 | Q1321,Q1325,Q1351 | HN1C01FU | |
| R1142,R1146 | RS1/10S1003F | D1303,D1324 | 1SS301 | |
| R1122,R1123 | RS1/10S104J | D1304,D1307,D1325,D1328 | 1SS355 | |
| R1148,R1150 | RS1/16S5601F | D1301,D1302,D1326,D1327 D1321 | CRH01 D1FK60 | |
| R1151,R1155 | RS1/16S6801F | D1321 | DII Koo | С |
| D1106 D1101 | DCOMME100 I | D1329,D1330 | UDZS4R7(B) | |
| R1106,R1121 Other Resistors | RS2MMF100J RS1/16S###J | D1306,D1323,D1331 | UDZS5R1(B) | |
| Other registors | 1101/100###0 | COIL & AND EILTEDS | | |
| | | COILS AND FILTERS ⚠T1301 SWITCHING TRANS. | ATK1159 | |
| 50X SUS BLOCK] | | T1321 SWITCHING TRANS. | ATK1160 | |
| <u>EMICONDUCTORS</u> | | | | |
| IC1202 | AXF1140 | CAPACITORS | | |
| IC1201 | MM1565AF | C1325 | ACH1428 | |
| IC1252 | PS9117 | C1326 | CEHAT100M50 | |
| IC1251 IC1271 | TND301S TND307TD | C1302,C1321 | CEHAT101M25 | |
| 101271 | IND307 ID | C1301,C1303,C1323 | CKSRYB103K50 | Е |
| Q1251 | 2SC2412K | C1304,C1306,C1327 | CKSRYB104K16 | |
| Q1272 | 2SK3325-Z | C1307,C1324 | CKSYB105K25 | |
| D1281 | 1SS302 | C1307,C1324 | CNSTBTUSK2S | |
| D1201 | 1SS355 | RESISTORS | | |
| D1252 | CRH01 | R1337 | RAB4C472J | |
| D4000 | LID 7040/D) | R1321,R1322,R1326,R1339 | RS1/10S224J | |
| D1282 D1251 | UDZS16(B) UDZS5R6(B) | VR1321 | CCP1392 | |
| | 05200110(D) | Other Resistors | RS1/16S###J | |
| COILS AND FILTERS | | | | |
| L1204,L1211 INDUCTOR | ATH1186 | | | |
| F1201 INDUCTOR | CTF1449 | | | F |
| L1201,L1205,L1231 | LFEA100J | | | · · |

| | 1 - | 2 | 3 | 4 |
|---|--|------------------------|---|------------------------------|
| | Mark No. Description | Part No. | Mark No. Description | Part No. |
| | SUS CLAMP 1 ASSY | | C2141,C2143,C2144 C2102 | CKSSYB104K10 |
| | <u>SEMICONDUCTORS</u> | DECOLOGIA | G2102 | CK31B103K23 |
| Α | D1631 | DF20L60U | RESISTORS | |
| | CAPACITORS | | R2101 R2142,R2143 | ACN1174 RS1/10S1003F |
| | C1632 | ACE1179 | R2142,R2143 R2103,R2107 | RS1/10S1003F RS1/10S104J |
| | OTHERS | | R2146,R2149 | RS1/16S5601F |
| _ | KN1632 GROUND PLATE | ANK-142 | R2147,R2151 | RS1/16S6801F |
| | CN1631 3P TOP POST | B3B-EH | R2102 | RS2MMF100J |
| | KN1631 WRAPPING TERMINAL | VNF1084 | R2108 | RS3LMF100J |
| | | | Other Resistors | RS1/16S###J |
| | SUS CLAMP 2 ASSY | | reavious pricord | |
| В | SEMICONDUCTORS | | [50Y SUS BLOCK] SEMICONDUCTORS | |
| | D1641 | DF20L60U | IC2252,IC2253 | AXF1141 |
| | 2.011 | 51 202000 | IC2350 | MM1565AF |
| | CAPACITORS | | IC2250 | PS9117 |
| | C1642 | ACE1179 | IC2231,IC2251 IC2203,IC2221 | TND301S TND307TD |
| | OTHERS | | • | |
| | KN1642 GROUND PLATE | ANK-142 | Q2202 Q2250 | 2SA2142 2SC4081 |
| | CN1641 3P TOP POST KN1641 WRAPPING TERMINAL | B3B-EH VNF1084 | Q2290 | 2SK3050 |
| | NIVIO41 WHALLING LEHWINAL | VIVI 1004 | Q2221 | 2SK3325-Z |
| С | | | Q2280,Q2281 | 2SK3399 |
| C | 50 Y DRIVE ASSY | | D2233 | 1SS301 |
| | [50Y LOGIC BLOCK] | | D2213 D2203,D2212,D2351 | 1SS302 1SS355 |
| | SEMICONDUCTORS | | D2203,D2212,D2331 D2202,D2204,D2205,D2234 | CRH01 |
| | IC2002 | TC74ACT540FT | D2251,D2252,D2272 | CRH01 |
| | IC2001,IC2004 | TC74ACT541FT | D2211 | D1FK60 |
| | IC2003,IC2005 | TC74VHC08FTS1 | D2232,D2271 | UDZS16(B) |
| | CAPACITORS | | D2250 | UDZS5R6(B) |
| | C2003 | CEHAT470M16 | COILS AND FILTERS | |
| | C2001,C2002,C2004-C2006 | CKSSYB104K10 | L2353 INDUCTOR | ATH1186 |
| D | <u>RESISTORS</u> | | F2301-F2320 FERRITE BEAD F2352 INDUCTOR | ATX1055 |
| | R2003,R2006 | RAB4C101J | L2350,L2351,L2354 | CTF1449 LFEA100J |
| | R2001,R2002,R2017,R2021 R2004,R2005,R2019,R2020 | RAB4C470J RAB4C472J | | |
| | Other Resistors | RS1/16S###J | CAPACITORS | 1051170 |
| | OTHERS | | C2330,C2335,C2341,C2342 C2231 (0.33U/100V) | ACE1178 ACG1118 |
| _ | CN2001 40P CONNECTOR | AKM1217 | C2271,C2272 (0.1U/100V) | ACG1124 |
| | | | C2336,C2337 C2270 | ACH1423 ACH1426 |
| | [50Y RESONANCE BLOCK] | | OZZ70 | A0111420 |
| | SEMICONDUCTORS | | C2226 C2207 | ACH1427 |
| Ε | IC2101 | AXF1142 | C2355,C2369 | CCSRCH102J50 CEHAT101M10 |
| | IC2141 | BA10393F | C2357 | CEHAT470M16 |
| | Q2141 D2101-D2105 | 2SC4081 D1FL40 | C2208,C2221,C2339,C2364 | CEHAT470M25 |
| | | | C2356 | CKSRYB104K16 |
| | COILS AND FILTERS | ATI 14440 | C2353,C2358,C2359 | CKSRYB105K6R3 |
| | L2103,L2104 CHOKE COIL L2101,L2102 CHOKE COIL | ATH1119 ATH1187 | C2363 C2209,C2222,C2230,C2252 | CKSRYB473K16 CKSRYF104Z50 |
| | L2105,L2106 CHOKE COIL | ATH1187 | C2250 | CKSSYB104K10 |
| | CAPACITORS | | C2354,C2360 | CKSYB105K25 |
| | C2131-C2134,C2136 (3.3U/250V) | ACE1168 | , | |
| F | C2103,C2107,C2108 (0.22U/250V) | ACG1112 | | |
| | C2104 (470p/630V) C2106 | ACG1126 CCG1186 | | |
| | C2101,C2145 | CKSRYB105K6R3 | | |
| | 36 | | DE | |
| | 30 1 ■ | PDP-506I | <u>7</u> E | 4 |
| _ | · — | - - | - | • |

| = 5 | ; = | 6 | - 7 | = 8 | |
|-----------------------------|------------------|-----------------------------|----------------------------------|-----------------------------|---|
| Mark No. | Description | Part No. | Mark No. Description | on Part No. | |
| RESISTORS | | | CAPACITORS | | |
| R2352 | | ACN1166 | C2531 | ACE1177 | |
| R2304 | | ACN1174 | C2516 | ACH1360 | |
| R2360,R2362 | | ACN1178 | C2532 | ACH1425 | Α |
| R2277-R2279,R | R2281 | ACN1241 | C2513 | ACH1428 | |
| R2210,R2211 | | RS1/10S151J | C2520 | CEHAT101M16 | |
| R2290 | | RS1MMF331J | C2515 | CEHAT101M25 | |
| R2222,R2224 | | RS2MMF5R6J | C2528 | CEHAT221M16 | |
| R2203 | | RS3LMF821J | C2514,C2525,C2534 | CKSRYB104K16 | |
| Other Resistors | | RS1/16S###J | C2521,C2533,C2535 | CKSRYB104K25 | |
| | | | | | |
| <u>OTHERS</u> | | | <u>RESISTORS</u> | | |
| , | 2 GROUND PLATE | ANK-142 | R2553 | RAB4C472J | |
| KN2354 GROU | 7 GROUND PLATE | ANK-142 ANK-142 | R2558 R2533,R2556 | RS1/10S0R0J RS1/10S104J | |
| , | 3 GROUND PLATE | ANK-142 ANK-142 | R2533,R2536 R2534,R2535,R2541 | RS1/10S2203F | В |
| | 2 KR CONNECTOR | B4B-PH-K | R2548 | RS1/16S1003F | |
| | | | | | |
| CN2350 9PTC | OP POST | B9B-EH | R2550 | RS1/16S1802F | |
| | | | R2549,R2557 | RS1/16S4702F | |
| | | | R2542,R2545 | RS1/16S5601F | |
| [50Y SCAN BL | _ | | VR2503 VR2531 | CCP1390 | |
| SEMICONDUC | | | VH2531 | CCP1392 | |
| IC2403,IC2405, | IC2406,IC2408 | PS9117 | Other Resistors | RS1/16S###J | |
| IC2401 IC2402,IC2407 | | PS9851-2(P) TC74ACT540FT | | | |
| 102402,102407 | | 1074AC1540F1 | | | |
| COILS AND F | ILTERS | | [50Y D-D CON BLOCK] | | С |
| L2401-L2403 | | LFEA100J | SEMICONDUCTORS | | Ü |
| | | | IC2602 | BA10358F | |
| CAPACITORS | | | IC2601,IC2603,IC2606 | PS2701A-1(L) | |
| C2404,C2411 | | ACH1413 | IC2605,IC2614 | TA76431FR | |
| C2401,C2407,C | 2414 | CEHAT101M10 | Q2610 Q2601,Q2609 | 2SA1163 2SA1576A | |
| | 2405,C2408-C2410 | CKSSYB104K10 | Q2601,Q2609 | 25A1576A | |
| C2412 | | CKSSYB104K10 | Q2608 | 2SA2005 | |
| DECICTORS | | | Q2607 | 2SC2713 | |
| RESISTORS | | DAD400001 | Q2612 | 2SC4081 | |
| R2407,R2421 R2402.R2409 | | RAB4C220J RS1/10S0R0J | Q2605,Q2606 | 2SD1898 | |
| Other Resistors | | RS1/16S###J | Q2603,Q2604,Q2611 | DTC143EUA | |
| Carlot Floolotoro | | 1101,10011110 | 00000 00010 00011 | 11014 004 511 | D |
| OTHERS | | | Q2602,Q2613,Q2641 D2611 | HN1C01FU 1SS226 | |
| · | BRIDGE CONNECTOR | AKM1200 | D2604,D2612 | 1SS301 | |
| CN2402 15P B | BRIDGE CONNECTOR | AKM1200 | D2602,D2613-D2615 | 1SS355 | |
| | | | D2601,D2603,D2609,D2618 | CRH01 | |
| [[0](](]] | ON DI COIC | | | | |
| [50Y VH D-D C | - | | D2610 | D1FL40 | _ |
| SEMICONDUC | CTORS | | D2617 | UDZS15(B) UDZS4R7(B) | |
| IC2531 IC2502 | | BA10358F | D2607,D2608 D2605 | UDZS5R1(B) | |
| IC2502 | | MIP2E3DMC PS2701A-1(L) | D2616 | UDZS5R6(B) | |
| IC2534,IC2535 | | TA76431FR | | () | |
| Q2533 | | 2SC2412K | COILS AND FILTERS | | Е |
| | | | ⚠T2602 CONVERTER TRANS. | ATK1156 | |
| Q2531 | | 2SC3425 | ⚠T2601 SWITCHING TRANS. | ATK1161 | |
| Q2532 | | 2SD2568 | 0.15.01505 | | |
| Q2511 | | HN1C01FU | CAPACITORS | | |
| D2534 D2522,D2524 | | 1SS355 CRH01 | C2608,C2610 | CEHAT221M25 | |
| 52022,52024 | | 31 11 10 1 | C2613 C2606 | CEHAT221M25 CEHAT221M6R3 | |
| D2523,D2532 | | D1FK60 | C2607 | CKSRYB102K50 | |
| D2533 | | UDZS33(B) | C2605,C2612,C2614 | CKSRYB103K50 | |
| D2536 | | UDZS4R7(B) | , , , , - | | |
| D2530,D2531 | | UDZS8R2(B) | C2601,C2604,C2609 | CKSRYB104K16 | |
| COUCANDE | II TEDO | | C2602,C2615 | CKSRYB105K6R3 | F |
| COILS AND F | | ATI/4 4 5 0 | C2603 | CKSRYF104Z50 | |
| <u>↑</u> T2503 CONVE L2501 | HIEH IHANS. | ATK1158 LFEA101J | C2611 | CKSSYB104K10 | |
| L2301 | | LICATUIJ | | | |
| | | | PDP 506PE | 37 | 7 |
| | | | PDP-506PE | | |

| | Mark No. Descript | ion Part No. | Mark No. Description | Part No. |
|---|--|------------------------------------|-------------------------------|------------------------------|
| | <u>RESISTORS</u> | | <u>OTHERS</u> | |
| | R2613 | RAB4C472J | CN3003 PH CONNECTOR 6P | AKM1277 |
| | R2641,R2642 | RS1/10S224J | CN3004 PH CONNECTOR 12P | AKM1298 |
| Α | R2629 | RS1/16S1002F | JA3001 DVI CONNECTOR | AKP1276 |
| | R2625,R2626 | RS1/16S1501F | JA3002 MDR CONNECTOR | AKP1277 |
| | R2608,R2612,R2630,R2632, | R2635 RS1/16S4701F | | |
| | R2618 | RS1/16S4702F | [MODULE UCOM BLOCK] | |
| | R2636 | RS1/16S5601F | SEMICONDUCTORS | |
| | R2652 | RS1/16S6801F | IC3156 | BR24L04FJ-W |
| | R2627 | RS3LMF151J | IC3151 | M30620FCPGP-U5C |
| | VR2601 | CCP1390 | IC3157 | M62334FP |
| | Other Resistors | RS1/16S###J | IC3158 | MM1522XU |
| | Other nesistors | N31/103###J | IC3155 | SN74AHC08PW |
| В | | | IC3152,IC3153 | SN74AHC541PW |
| | HD DIGITAL ASSY | | IC3160 | TC74VHC123AFTS1 |
| | | | IC3159 | TC7W126FU |
| | <u>OTHERS</u> | | Q3151 | 2SJ461A |
| | DD CON UNIT | AXY1116 | D3156,D3159,D3161-D3163 | 1SS355 |
| _ | REMOTE RECEIVER UNIT | RPM7240-H4 | D3151,D3152,D3154,D3155,D3158 | DAN202U |
| | HD DIGITAL ASSY | | CAPACITORS . | |
| | | | C3151 | ACH1357 |
| | [TMDS RX BLOCK] | | C3164 | CCSSCH101J50 |
| | SEMICONDUCTORS | | C3171,C3172,C3180 | CKSRYB105K6R3 |
| | IC3002 | BA8274F | C3154 | CKSSYB102K50 |
| С | IC3001 | SII1169CTU | C3152,C3153,C3155-C3158 | CKSSYF104Z16 |
| | IC3004 | SN74AHC32PW | | |
| | Q3009 Q3007 | 2SC4081 DTA143EUA | C3160-C3163,C3165,C3166,C3170 | CKSSYF104Z16 |
| | | | RESISTORS | |
| | Q3004 | DTC124EUA | R3160,R3171,R3176 | RAB4C101J |
| | Q3005 | DTC143EUA | R3174 | RAB4C103J |
| • | Q3002,Q3006,Q3008 | RN1901 | Other Resistors | RS1/16S###J |
| | Q3003 | RN2901 | | |
| | D3001,D3002 | 1SS355 | <u>OTHERS</u> | |
| | D3012 | DA204U | ∴ X3151 CERAMIC RESONATOR | ASS1178 |
| | D3007-D3011 | RB751V-40 | | |
| D | D3003 | UDZS6R8(B) | | |
| D | 2000 | 02200.10(2) | [PANEL FLASH BLOCK] | |
| | COILS AND FILTERS | | <u>SEMICONDUCTORS</u> | |
| | F3005 CHIP SOLID INDUCT | OR QTL1011 | IC3301 | MBM29PL160TD75TN |
| | L3003 CHIP SOLID INDUCT | | IC3304 | PST3610UR |
| | | | IC3302,IC3305 | PST3628UR |
| | CAPACITORS | | IC3303 | SN74AHC08PW |
| _ | C3030 | ACH1357 | Q3302 | HN1C01FU |
| | C3034,C3036,C3038,C3040, | C3042 ACH1396 | 00004 | DNI4004 |
| | C3003,C3005,C3009,C3014, | C3019 CCSRCH331J50 | Q3301 | RN1901 |
| | C3046 | CCSRCH470J50 | CADACITORS | |
| | C3044,C3045 | CCSSCH101J50 | <u>CAPACITORS</u> | 0000011470150 |
| Е | | | C3311 C3317 | CCSRCH470J50 |
| _ | C3001,C3008,C3011,C3020, | | C3304,C3307,C3309 | CCSRCH471J50 CKSRYB472K50 |
| | C3025-C3027 | CCSSCH820J50 | C3305,C3310 | CKSSYB102K50 |
| | C3018,C3021,C3023,C3024 C3015-C3017,C3028,C3029 | CKSRYF105Z10 | C3315 | CKSSYB104K10 |
| | C3015-C3017,C3028,C3029 | CKSSYF104Z16 C3039 CKSSYF104Z16 | 00010 | 0.100121011110 |
| | 03031,03032,03003,03037, | 55009 CN5511104210 | C3301-C3303,C3306,C3308,C3316 | CKSSYF104Z16 |
| | C3041,C3043 | CKSSYF104Z16 | | |
| | | | RESISTORS | |
| | <u>RESISTORS</u> | | All Resistors | RS1/16S###J |
| | R3007 | RAB4C220J | | |
| | R3008-R3013 | RAB4C470J | <u>OTHERS</u> | |
| | R3018 | RAB4C472J | ⚠ X3302 CRYSTAL OSCILLATOR | ASS1188 |
| F | R3021 | RS1/16S3900F | | |
| | Other Resistors | RS1/16S###J | | |
| | | | | |

PDP-506PE

| lark No. | Description | Part No. | Mark No. Description | Part No. | |
|--------------------------|--------------------|------------------------|----------------------------------|-----------------------------|--|
| SQ ASIC BLO | • | <u> </u> | HD IR ASSY | <u> </u> | |
| EMICONDUC | - | | | | |
| IC3401 | ions | PEG122C | SEMICONDUCTORS | | |
| 103401 | | PEG1220 | Q1681 | 2SC4116 DA204U | |
| OILS AND FI | ITERS | | D1681 | DA2040 | |
| F3401,F3402 E | | CCG1162 | CAPACITORS | | |
| , | HIP SOLID INDUCTO | | C1681 | CEVW470M6R3 | |
| | | | C1682 | CKSRYB103K50 | |
| APACITORS | | | C1683 | CKSSYB102K50 | |
| C3402,C3419 (1 | 00UF/6.3V) | ACH1396 | C1684 | CKSSYF104Z16 | |
| C3425,C3441 (1 | | ACH1396 | | | |
| C3414-C3416,C | | CKSRYF105Z10 | RESISTORS | | |
| C3403-C3410,C3 | 3412,C3413 | CKSSYF104Z16 | All Resistors | RS1/16S###J | |
| C3417,C3418,C3 | 3420-C3424 | CKSSYF104Z16 | | | |
| | _ | | <u>OTHERS</u> | | |
| C3439,C3440,C3 | 3442-C3449 | CKSSYF104Z16 | CN1681 3P L TYPE PLUG | KM200NA3L | |
| | | | V1681 REMOTE RECEIVER UNIT | RPM7240-H4 | |
| <u>ESISTORS</u> | | | | | |
| R3402,R3412 | | RAB4C101J | | | |
| R3405-R3407,R3 | 3409,R3410 | RAB4C220J | | | |
| R3416,R3417 | | RAB4C220J | HD AUDIO ASSY | | |
| R3425 Other Resistors | | RS1/16S5601F | OTHERS | | |
| Other Resistors | | RS1/16S###J | J3901 1P BOARD IN WIRE | ADX3123 | |
| | | | | | |
| ADDRESS BL | OCK1 | | | | |
| EMICONDUC | | | [AUDIO AMP BLOCK] | | |
| | ions | DANIOOOLI | SEMICONDUCTORS | | |
| D3501,D3502 | | DAN202U | IC3754 | BR24L02FJ-W | |
| ADACITODO | | | IC3751 | LA4625 | |
| APACITORS | | OKOOND400KE0 | IC3752 | NJM7809FA | |
| C3501-C3504 | | CKSSYB102K50 | IC3753 | NJW1183L | |
| ESISTORS | | | Q3751,Q3754,Q3755,Q3757 | 2SA1576A | |
| | 2505 | DAD40404 I | | | |
| R3521,R3522,R3 R3524 | 3323 | RAB4C101J RAB4C222J | Q3756,Q3759 | 2SC4081 | |
| R3519,R3520 | | RAB4C472J | Q3758,Q3760 | DTC124EUA | |
| Other Resistors | | RS1/16S###J | | | |
| 0110111000000 | | 1101/100###0 | <u>CAPACITORS</u> | | |
| THERS | | | C3797,C3808,C3812,C3814 | CEAT1R0M50 | |
| | 4 40P CONNECTOR | AKM1217 | C3775,C3777,C3788,C3790,C3791 | CEHAT100M50 | |
| CN3506 40P C | | AKM1217 | C3799 | CEHAT100M50 | |
| CN3505 | | VKN1310 | C3761,C3764,C3786,C3798 | CEHAT101M16 | |
| | | | C3766,C3780,C3783-C3785 | CEHAT1R0M50 | |
| | | | C3762 | CEHAT220M50 | |
| DIGITAL DD C | ON BLOCK] | | C3762 C3752,C3753,C3819,C3820 | CEHAT2R2M50 | |
| APACITORS | - | | C3759 | CEHAT331M16 | |
| C3609 | | CKSSYF104Z16 | C3757 | CEHAT471M25 | |
| - | | | C3755 | CEHAT472M25 | |
| ESISTORS | | | | | |
| R3611 | | RAB4C101J | C3763 | CEHATR47M50 | |
| Other Resistors | | RS1/16S###J | C3754,C3805 | CFTLA103J50 | |
| - | | | C3767,C3770,C3772-C3774 | CFTLA104J50 | |
| | | | C3781,C3782,C3789,C3792-C3795 | CFTLA104J50 | |
| | | | C3806,C3807,C3813 | CFTLA104J50 | |
| D LED ASS | SY | | 00040 | OFTI 4000/50 | |
| EMICONDUC | | | C3810 | CFTLA223J50 | |
| D1671 | <u> </u> | SML-311UT | C3778 C3758,C3760,C3796 | CFTLA334J50 CKSRYB103K50 | |
| D1672 | | SML512BC4T | C3769,C3760,C3796 | CKSRYB222K50 | |
| - - | | - - | C3769,C3615 C3779 | CKSRYB822K50 | |
| OILS AND FI | LTERS | | 00.70 | ONOTH DOLLING | |
| | HIP SOLID INDUCTOR | R QTL1011 | C3816 | CKSRYF104Z16 | |
| | | | | - | |
| | | | <u>RESISTORS</u> | | |
| | | | R3768-R3770,R3782 | RD1/2MMF2R2J | |
| | | | R3752 | RD1/2MMF4R7J | |
| | | | | | |
| | | | Other Resistors | RS1/16S###J | |

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Mark No. Description Part No.

OTHERS

CN3752 12P PH CONNECTOR AKM1335
3771 AUDIO HEATSINK ANH1636
CN3751 3P TOP POST (VH) B3P-VH

3772-3775 SCREW VBB30P100FNI KN3751 WRAPPING TERMINAL VNF1084

KN3752 WRAPPING TERMINAL VNF1084

[ST TERMINAL BLOCK]
COILS AND FILTERS

1 ∆ L3901,L3902 LINE FILTER ATF1206

CAPACITORS

Α

⚠ C3906,C3908,C3914,C3916
 C3903,C3911
 C3904,C3912
 CCSRCH101J50
 CKSRYB332K50
 CKSRYF473Z50

RESISTORS

R3901-R3904 RD1/2MMF100J

OTHERS

JA3901 SPEAKER TERMINAL AKE1061

POWER SUPPLY UNIT

POWER SUPPLY Unit has no service part.

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PDP-506PE

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6. ADJUSTMENT

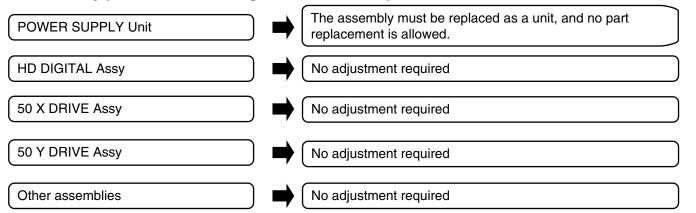


- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced **POWER SUPPLY Unit** (Clear the history data on the number of power-ons.) Refer to "7.1.7 HOW TO CLEAR HISTORY DATA." Writing of backup data is required. **HD DIGITAL Assy** Refer to the "7.1.6 BACKUP WHEN THE MAIN UNIT IS ADJUSTED. " 50 X DRIVE Assy No adjustment required 50 Y DRIVE Assy No adjustment required Refer to the "6.3 METHOD FOR REPLACING THE SERVICE Service Panel PANEL ASSY." Other assemblies No adjustment required

■ When any part in the following assemblies is replaced



41

В

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6.2 RS-232C COMMAND

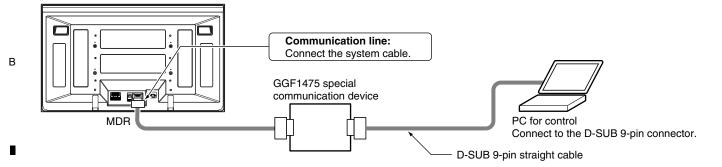
• The panel control items for the PDP-506PE, PU / PDP-436PE, PU systems can be controlled with the RS-232C commands by connecting a PC through the GGF1475 special communication device when the Media Receiver is not connected with the PDP.

3

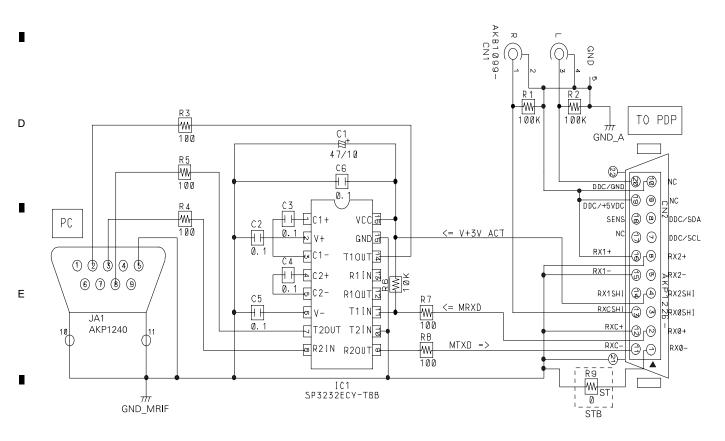
Note: The special communication device for the PDP-503P cannot be used with this unit, because the control lines within the MDR cable are different.

1. Connection

С



• Schematic diagram of the special communication device



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2. Command format

■ Communication protocol

Start bit : 1bit
Data : 8bit
Parity : 0 (none)
Stop bit : 1bit
Baud rate : 38400bps

■ Start and stop conditions

STX (start condition): 0x02 ETX (stop condition): 0x03

■ ID setting

No ID setting (corresponding to all ASCII codes)

■ Acknowledgement (ACK)

- Acknowledgement (ACK) will be sent back when the unit returns to Standby mode for the next command after the process of the received command is finished.
- The return data will be a received command in capital letters, but without an ID.

Example of communication: For a command listed on the command list

MR / External PC

STX

0x02

| ID | Command | ETX |
|----|---------|------|
| ** | CBU | 0x03 |



| STX | Command | ETX |
|------|---------|------|
| 0x02 | CBU | 0x03 |

Returns from the PDP

• If a received command is not one listed on the command list, "ERR" (3 characters) will be sent back.

Example of communication: For a command that is not listed on the command list

MR / External PC

| STX | ID | Command | ETX |
|------|----|---------|------|
| 0x02 | ** | AAA | 0x03 |



| STX | Command | ETX |
|------|---------|------|
| 0x02 | ERR | 0x03 |

Returns from the PDP

• If the operation of a received command is not possible in a certain status, "XXX" (3 characters) will be sent back.

Example of communication: If an adjustment command that gives an adjustment value out of the adjustable range is sent

MR / External PC

| STX | ID | Adjustment Command | Adjustment Value | ЕТХ |
|------|----|-----------------------|---------------------|------|
| 0x02 | ** | VOL | 128 | 0x03 |



| Returns from the PDP | | | |
|----------------------|---------|------|--|
| STX | Command | ETX | |
| 0x02 | XXX | 0x03 | |

■ Error process

If an error is generated between STX and ETX, a return signal will not be issued.

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3. Definition of various commands

■ Simple-function command

A simple-function command orders an operation that will conclude by itself, and it consists of 3 characters.

Example of communication:

MR / External PC

| STX | ID | Command | ETX |
|------|----|---------|------|
| 0x02 | ** | CPD | 0x03 |



Returns from the PDP

| STX | Command | ETX |
|------|---------|------|
| 0x02 | CPD | 0x03 |

■ Adjustment command and adjustment value

An adjustment command is accompanied by an adjustment value and orders a change in the adjustment value, such as for the contrast adjustment.

- Adjustment command + adjustment value => The attached parameter will be the adjustment value.
- The adjustment value to be attached to an adjustment command consists of 3 characters in decimal, in the range of 000 to 999.

Example of communication:

MR / External PC

| STX | ID | Adjustment Command | Adjustment Value | ЕТХ |
|------|----|-----------------------|---------------------|------|
| 0x02 | ** | CNT | 128 | 0x03 |



Returns from the PDP

| STX | Adjustment Command | Adjustment Value | ETX |
|------|-----------------------|---------------------|------|
| 0x02 | CNT | 128 | 0x03 |

- If the adjustment value of the received command is out of the adjustable range, "XXX" will be sent back, and the adjustment value will not be changed.
- If the adjustment value of the received command is the same as the current adjustment value, the adjustment value will be overwritten, and "XXX" will not be sent back.

■ Setup command and setup value

A setup command is accompanied by a setup value and orders a change in the setup value, such as for the mask setup.

- Setup command + setup value => The attached parameter will be the setup value.
- The setup value to be attached to a setup command consists of 3 characters in decimal, in the range of S00 to S99.

D Example of communication:

MR / External PC

| STX | ID | Adjustment Command | Adjustment Value | ETX |
|------|----|-----------------------|---------------------|------|
| 0x02 | ** | MKS | S02 | 0x03 |



Returns from the PDP

| STX | Adjustment Command | Adjustment Value | ETX |
|------|-----------------------|---------------------|------|
| 0x02 | MKS | S02 | 0x03 |

- If the setup value of the received command is out of the range, "XXX" will be sent back, and the setup value will not be changed.
- If the setup value of the received command is the same as the current setup value, the setup value will be overwritten, and "XXX" will not be sent back.

■ QUEST (acquiring status) command

If a QUEST command is received from the main unit's microcomputer, data for various adjustment values will be read from memory and sent back. The return data consist of the received command as an echo back, return data, and a checksum.

- Return data: A string of characters defined for each QUEST command is converted into ASCII codes and transmitted.
- The configuration and the data length of return data are defined for individual QUEST commands.

Example of communication:

MR / External PC

 STX
 ID
 QST Command
 ETX

 0x02
 **
 QS1
 0x03



Returns from the PDP

| STX | QST Command | Return Data | Checksum | ETX |
|------|----------------|-------------|----------|------|
| 0x02 | QS1 | 54AHM2** | 7B | 0x03 |

• Checksum (CS): A checksum is used for judging if any error exists in the data sent back from the panel. If an error is detected, it is possible to resend the QUEST command from the MR / External PC to try to acquire data again.

| | mand ime | | Function | Effective only in Factory mode | Remarks |
|-----|-------------|----------------------|---|-----------------------------------|---|
| Α | | | | | |
| ABL | *** | ABL ADJUSTMENT | Adjusting the upper limit of the power | 0 | |
| AMT | S00 | AUDIO MUTE OFF | Turning off the audio muting | | |
| | S01 | AUDIO MUTE ON | Turning on the audio muting | | |
| APW | S00 | APL WB FUNCTION:OFF | WB correction interlocked with APL: OFF | 0 | |
| | S01 | APL WB FUNCTION:ON | WB correction interlocked with APL: ON | 0 | |
| В | | | | | |
| BAL | *** | BALANCE ADJUSTMENT | Audio balance adjustment | | |
| BAS | *** | BASS ADJUSTMENT | Audio bass adjustment | | |
| ВСР | | BACKUP COPY | Copying the backup data in the EEPROM | 0 | |
| С | | | | | |
| CBU | | CLEAR BACKUP | Clearing backup data | 0 | |
| СНМ | | CLEAR HOUR METER | Clearing data of the hour meter | 0 | Used only when the panel is replaced |
| CPC | | CLEAR POWER ON COUNT | Clearing power-on count data | 0 | Used only when the power unit is replaced |
| CPD | | CLEAR POWER DOWN | Clearing power-down information | 0 | Used only when the panel is replaced |
| СРМ | | CLEAR PLUSE METER | Clearing data of the pulse meter | 0 | Used only when the panel is replaced |
| CSD | | CLEAR SHUT DOWN | Clearing shutdown information | 0 | Used only when the panel is replaced |
| D | | | | | , , , , |
| DRV | S00 | DRIVE OFF | Main power off | | |
| | S01 | DRIVE ON | Main power on | | |
| E | | | | | |
| ESV | S00 | POWER CONTROL NORMAL | Setting Power Consumption mode to 4-split normal curve | | |
| | S01 | POWER CONTROL MODE1 | Setting Power Consumption mode to 2-split normal curve | | |
| | S02 | POWER CONTROL MODE2 | Setting Power Consumption mode to 2-split power-saving curve | | |
| | S10 | POWER CONTROL NORMAL | Setting Power Consumption mode to 4-split normal curve (domestic) | | |
| | S11 | POWER CONTROL MODE1 | Setting Power Consumption mode to 2-split normal curve (domestic) | | |
| | S12 | POWER CONTROL MODE2 | Setting Power Consumption mode to 2-split power-saving curve (domestic) | | |
| F | | | | | |
| FAJ | | FINISH ADJUSTMENT | Determining the flag of the HD DIGITAL Assy adjustment in "adjustment is completed" | 0 | |
| FAN | | FACTRY NO | | 0 | |
| FAY | | FACTRY YES | Entering Factory mode | | Turning the mask setting off |
| FCS | S00 | FOCUS OFF | Turning the FOCUS function off | | |
| | S01 | FOCUS ON | Turning the FOCUS function on | | |
| М | | | | | |
| MKC | S00 | MASK COMBINATION OFF | MASK off | | |
| | S01 | MASK COMBINATION 01 | H ramp (slant 1) M | 0 | |
| | S02 | MASK COMBINATION 02 | H ramp (slant 4) M | 0 | |
| | S03 | MASK COMBINATION 03 | Slanting ramp M | 0 | |
| | S04 | MASK COMBINATION 04 | 30 for aging | 0 | |
| | S05 | MASK COMBINATION 05 | 05 for aging | 0 | |
| | S06 | MASK COMBINATION 06 | Erasing afterimage 1 | 0 | |
| | S07 | MASK COMBINATION 07 | Erasing afterimage 2 (RGB: zigzag, V: reverse) | 0 | |
| | S08 | MASK COMBINATION 08 | White (change in luminance level) | 0 | |
| | S09 | MASK COMBINATION 09 | PEAK SEEK RASTER | 0 | |
| MKS | S00 | MASK SINGLE OFF | MASK OFF | | |
| | | MASK SINGLE 1 | H ramp (slant 1) | 0 | |
| | S02 | MASK SINGLE 2 | H ramp (slant 4) | 0 | |
| | S03 | MASK SINGLE 3 | V ramp (slant 1) | 0 | |
| | S04 | MASK SINGLE 4 | Slanting ramp | 0 | |

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| | mand ime | | Function | Effective only in Factory mode | Remarks |
|-----|-------------|----------------|--------------------------------|--------------------------------|---------|
| MKS | S05 | MASK SINGLE 5 | Window(Hi=870Lo=102) | 0 | |
| | S06 | MASK SINGLE 6 | Window(Hi=1023Lo=102) | 0 | |
| | S07 | MASK SINGLE 7 | Window(Hi=1023) | 0 | |
| | S08 | MASK SINGLE 8 | Window(Hi=1023)4% | 0 | |
| | S09 | MASK SINGLE 9 | Window(Hi=1023)1.25% | 0 | |
| | S10 | MASK SINGLE 10 | Window(1/7LINE) | 0 | |
| | S11 | MASK SINGLE 11 | STRIPE(MGT/GRN) | 0 | |
| | S12 | MASK SINGLE 12 | STRIPE(GRN/MGT) | 0 | |
| | S13 | MASK SINGLE 13 | B & W, checker (1 line) | 0 | |
| | S14 | MASK SINGLE 14 | B & W, checker (2 lines) | 0 | |
| | S15 | MASK SINGLE 15 | B & W, checker (4 lines) | 0 | |
| | S16 | MASK SINGLE 16 | B & W, checker (8 lines) | 0 | |
| | S17 | MASK SINGLE 17 | COLOR BAR | 0 | |
| | S18 | MASK SINGLE 18 | Slanting lines | 0 | |
| | S19 | MASK SINGLE 19 | Red & black, checker (1 line) | 0 | |
| | S20 | MASK SINGLE 20 | Red & black, checker (2 lines) | 0 | |
| | S21 | MASK SINGLE 21 | Red & black, checker (4 ines) | 0 | |
| | S22 | MASK SINGLE 22 | Red & black, checker (8 lines) | 0 | |
| | S23 | MASK SINGLE 23 | RGB zigzag, V reverse | 0 | |
| | S24 | MASK SINGLE 24 | SUS 2000 pulses (black raster) | 0 | |
| | S25 | MASK SINGLE 25 | Window(Hi=870Lo=102) PATTAN3 | 0 | |
| | S26 | MASK SINGLE 26 | Window(Hi=1023Lo=102) PATTAN3 | 0 | |
| | S27 | MASK SINGLE 27 | Window(Hi=1023) Pattern 3 | 0 | |
| | S28 | MASK SINGLE 28 | Window(Hi=1023)4% Pattern 3 | 0 | |
| | S29 | MASK SINGLE 29 | Window(Hi=1023)1.25% Pattern 3 | 0 | |
| | S30 | MASK SINGLE 30 | Window(1/7LINE) Pattern 3 | 0 | |
| | S51 | MASK SINGLE 51 | Raster - White | 0 | |
| | S52 | MASK SINGLE 52 | Raster - Red | 0 | |
| | S53 | MASK SINGLE 53 | Raster - Green | 0 | |
| | S54 | MASK SINGLE 54 | Raster - Blue | 0 | |
| | S55 | MASK SINGLE 55 | Raster - Black | 0 | |
| | S56 | MASK SINGLE 56 | Raster - Cyan | 0 | |
| | S57 | MASK SINGLE 57 | Raster - Magenta | 0 | |
| | S58 | MASK SINGLE 58 | Raster - Yellow | 0 | |
| | S59 | MASK SINGLE 59 | Raster - Cyan 460 :W | 0 | |
| | S60 | MASK SINGLE 60 | Raster - Green 774 :W | 0 | |
| | S61 | MASK SINGLE 61 | Raster - Gray 912 :W | 0 | |
| | S62 | MASK SINGLE 62 | Raster - Yellow egg color: W | 0 | |
| | S63 | MASK SINGLE 63 | Raster - Beige: W | 0 | |
| | S64 | MASK SINGLE 64 | Raster - Sky color: W | 0 | |
| | S65 | MASK SINGLE 65 | Raster - Pale purple: W | 0 | |
| | S66 | MASK SINGLE 66 | Raster - Magenta 54 :W | 0 | |
| | S67 | MASK SINGLE 67 | Raster - Red 588 | 0 | |
| | S68 | MASK SINGLE 68 | Red 1023 + α | 0 | |
| | S69 | MASK SINGLE 69 | Green 1023 + α | 0 | |
| | S70 | MASK SINGLE 70 | Blue 1023 + α | 0 | |
| | S71 | MASK SINGLE 71 | Red 588 + α | 0 | |
| | S72 | MASK SINGLE 72 | Green 588 + α | 0 | |
| | S73 | MASK SINGLE 73 | Blue 588 + α | 0 | |
| | | | | | |

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| Command Name | | | Function | Effective only in Factory mode Remarks | |
|-----------------|-----|---|--|--|--|
| MKS | S74 | MASK SINGLE 74 | Raster -Gray 512 (reservation) | 0 | |
| Р | | | | | |
| PAV | S** | PANEL AV MODE | Switching panel functions interlocked with the AV selection | | |
| PBH | *** | PANEL BLUE HIGH | Panel white balance adjustment - Blue highlight | 0 | |
| PBL | *** | PANEL BLUE LOW | Panel white balance adjustment - Blue low light | 0 | |
| PDM | S00 | PD MUTE OFF | Passing PD signals to the Power SUPPLY Unit => Power-down | | |
| | S01 | PD MUTE ON | Not passing PD signals to the Power SUPPLY Unit => No power-down | | |
| PFN | | FACTORY NO | Factory mode: off | 0 | |
| PFS | | PANEL FINAL SETUP | Setup at shipment | 0 | |
| PFY | | FACTORY YES | Factory mode: on | | |
| PGH | *** | PANEL GREEN HIGH | Panel white balance adjustment - Green highlight | 0 | |
| PGL | *** | PANEL GREEN LOW | Panel white balance adjustment - Green low light | 0 | |
| PGM | S** | PANEL GAMMA | Setting of the gamma table | | |
| PMT | S00 | MUTE OFF | Canceling panel muting | | |
| | S01 | MUTE ON | Panel muting | | |
| POF | 1 | POWER OFF | Power off | | |
| PON | | POWER ON | Power on | | |
| PPT | S00 | PANEL PROTECT OFF | Panel protection: off | 0 | |
| | S01 | PANEL PROTECT ON | Panel protection: on | 0 | |
| PUC | S00 | PUER CINEMA:OFF | Pure cinema: off | <u> </u> | |
| | S01 | PUER CINEMA:STD | Pure cinema: standard | | |
| | S02 | PUER CINEMA:ADV | Pure cinema: advanced | | |
| Q | 302 | FOLH CINLINA.ADV | rule cilienta, auvanceu | | |
| | | OUECT AD ILICTMENT | A carriving various adjustment values | | |
| QAJ | | QUEST ADJUSTMENT QUEST PANEL INFORMATION | Acquiring various adjustment values | | |
| QIP | | | Acquiring various input signal data | | |
| QPD | | QUEST POWER-DOWN | Acquiring logs of power-down points | | |
| QPM | | QUEST PULSE METER | Acquiring data of the pulse meter | | |
| QPW | | QUEST PANEL WHITE BALANCE | ., 9, | | |
| QS1 | | QUEST STATUS 1 | Acquiring data on the unit, such as the version of the program | | |
| QS2 | | QUEST STATUS 2 | Acquiring data on the status of the unit, such as temperature | | |
| QSD | | QUEST SHUT DOWN | Acquiring data on shutdown | | |
| QSI | | QUEST SIGNAL INFORMATION | Acquiring data related with signals | | |
| R | | | | | |
| RBL | S** | PANEL REVISE BLUE LEVEL | Setting of blue level for panel degradation correction | 0 | |
| RGL | S** | PANEL REVISE GREEN LEVEL | Setting of green level for panel degradation correction | 0 | |
| RHI | *** | RED HIGH | User white balance - Red highlight | | |
| RLW | *** | RED LOW | User white balance - Red low light | | |
| RRL | S** | PANEL REVISE RED LEVEL | Setting of red level for panel degradation correction | 0 | |
| RSW | *** | XY-RST-W ADJ | Adjustment of the width of XY reset pulse | 0 | |
| S | | | | | |
| SDM | S00 | SD MUTE OFF | Shutdown enabled | | |
| | S01 | SD MUTE ON | Shutdown prohibited | | |
| SFR | S01 | SUS FREQUENCY MODE1 | Measures against AM radio noise - Pattern 1 | 0 | |
| | S02 | SUS FREQUENCY MODE2 | Measures against AM radio noise - Pattern 2 | 0 | |
| | S03 | SUS FREQUENCY MODE3 | Measures against AM radio noise - Pattern 3 | 0 | |
| | S04 | SUS FREQUENCY MODE4 | Measures against AM radio noise - Pattern 4 | 0 | |
| | S05 | SUS FREQUENCY MODE5 | Measures against AM radio noise - Pattern 5 | 0 | |
| | S06 | SUS FREQUENCY MODE6 | Measures against AM radio noise - Pattern 6 | 0 | |
| | S07 | SUS FREQUENCY MODE7 | Measures against AM radio noise - Pattern 7 | 0 | |

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| Command Name | | | Function | Effective only in Factory mode | Remarks |
|-----------------|-----|----------------------------|---|--------------------------------|---------|
| SFR | S08 | SUS FREQUENCY MODE8 | Measures against AM radio noise - Pattern 8 | 0 | |
| SMM | S** | SIDE MASK MODE | Setting of the effective area during streaking correction | 0 | |
| SN0 | *** | SERIAL NO 0 | Setting of the serial No. 0 (panel) | 0 | |
| SN1 | *** | SERIAL NO 1 | Setting of the serial No. 1 (panel) | 0 | |
| SN2 | *** | SERIAL NO 2 | Setting of the serial No. 2 (panel) | 0 | |
| SN3 | *** | SERIAL NO 3 | Setting of the serial No. 3 (panel) | 0 | |
| SN4 | *** | SERIAL NO 4 | Setting of the serial No. 4 (panel) | 0 | |
| SRS | S00 | SRS OFF | SRS function: off | | |
| | S01 | SRS ON | SRS function: on | | |
| SYS | S00 | SYSTEM CABLE NO | Prohibiting monitoring of cable disconnection detection | | |
| | S01 | SYSTEM CABLE YES | Permitting monitoring of cable disconnection detection | | |
| Т | | | | | |
| TBS | S00 | TRUBASS OFF | TruBass function: off | | |
| | S01 | TRUBASS ON | TruBass function: on | | |
| TRE | *** | TREBLE ADJUSTMENT | Audio treble adjustment | | |
| U | | | | | |
| UAJ | | UN-ADJUSTMENT | Determining the flag for the HD DIGITAL Assy adjustment in "not adjusted" | 0 | |
| V | | | | | |
| VFQ | S01 | FREQENCY VIDEO 48Hz | Setting the frequency in Mask mode to VD-48 Hz | 0 | |
| | S02 | FREQENCY VIDEO 50Hz | Setting the frequency in Mask mode to VD-50 Hz | 0 | |
| | S03 | FREQENCY VIDEO 60Hz | Setting the frequency in Mask mode to VD-60 Hz | 0 | |
| | S05 | FREQENCY THEATER 72Hz | Setting the frequency in Mask mode to VD-72 Hz | 0 | |
| | S06 | FREQENCY 75Hz | Setting the frequency in Mask mode to VD-75 Hz | 0 | |
| | S13 | FREQENCY PC 60Hz | Setting the frequency in Mask mode to PC-60 Hz | 0 | |
| | S14 | FREQENCY PC 70Hz | Setting the frequency in Mask mode to PC-70 Hz | 0 | |
| | S22 | FREQENCY VIDEO 50Hz NONSTD | Setting the frequency in Mask mode to VD-50 Hz (nonstandard) | 0 | |
| | S23 | FREQENCY VIDEO 60Hz NONSTD | Setting the frequency in Mask mode to VD-60 Hz (nonstandard) | 0 | |
| | S25 | FREQENCY VIDEO 72Hz NONSTD | Setting the frequency in Mask mode to VD-72 Hz (nonstandard) | 0 | |
| | S26 | FREQENCY VIDEO 75Hz NONSTD | Setting the frequency in Mask mode to VD-75 Hz (nonstandard) | 0 | |
| VOF | *** | Vofs ADJUSTMENT | Adjustment of the reference value of Vofs voltage | 0 | |
| VOL | *** | VOLUME | Audio volume adjustment | | |
| VRP | *** | Vrp ADJUSTMENT | Adjustment of the reference value of Vrst-p voltage | 0 | |
| VSU | *** | Vsus ADJUSTMENT | Adjustment of the reference value of Vsus voltage | 0 | |
| w | | | | | |
| WBI | S00 | WB INITIALIZE NO | Panel WB standard output mode: off | 0 | |
| WBI | S01 | WB INITIALIZE YES | Panel WB standard output mode: on | 0 | |
| х | | | · | | |
| XSB | *** | X-SUS-B ADJ | X-SUS-B ADJ | 0 | |
| Υ | | | | | |
| YSB | *** | Y-SUS-B ADJ | Y-SUS-B ADJ | 0 | |
| YTG | *** | Y-SUSTAIL ADJ | Y-SUSTAIL ADJ | 0 | |
| YTW | *** | Y-SUSTAIL W AJD | Y-SUSTAIL W AJD | 0 | |

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PDP-506PE

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5. QUEST commands (for acquiring status)

With a QUEST command, data on STBY/ON, PD, and SD can be obtained while the unit is on.

■ Acquisition of panel statuses • • • [QS1]

The command QS1 is for acquiring data necessary for authentication of both the main unit's microcomputer and the module's microcomputer.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|-----------------------------------|--|
| [QS1] | All operations | To acquire data on product status | Return data: 3 (ECO)+43(DATA)+2(CS)=48Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|-------------------------|----------------|-------------------|
| ECO | | 3Byte | QS1 |
| 1 | Resolution/size | 1Byte | 5 |
| 2 | Generation | 1Byte | 6 |
| 3 | Destination | 1Byte | * |
| 4 | Grade | 1Byte | * |
| 5 | Product type | 1Byte | S |
| 6 | MDUcom-Boot | 3Byte | 01A |
| 7 | MDUcom-PRG | 8Byte | 001SM "space × 3" |
| 8 | SEQUENCE PROCESSOR-Boot | 3Byte | 01A |
| 9 | SEQUENCE PROCESSOR-Boot | 8Byte | 001AM "space × 3" |
| 10 | SQ-VIDEO(43/42) | 4Byte | 001X |
| 11 | SQ-PC(43/42) | 4Byte | 001X |
| 12 | SQ-VIDEO(50/61) | 4Byte | 001W |
| 13 | SQ-PC(50/61) | 4Byte | 001W |
| cs | | 2Byte | 7B |

| ■ Resolution/size | |
|-------------------|-------------|
| 4 | 1024*768-43 |
| 5 | 1280*768-50 |

| ● Generation | | |
|--------------|----|--|
| 6 | G6 | |
| | | |

| Destination | |
|-------------------------------|--------|
| * | Common |

| ● Grade | | |
|---------|--------|--|
| * | Common | |

| MDUcom/SEQUENCE PROCESSOR-Boot • • • 3Byte | | |
|--|---|--|
| 1st character | | Representing the boot version in 2-digit decimal |
| 2nd character | | |
| 3rd character A | | When the boot version is common to 43/50 |
| | Х | When the boot version is only for 43 |
| | W | When the boot version is only for 50 |

| ● Product type | |
|----------------|--------------|
| S | System model |

| ● MDUcom/SEQUENCE PROCESSOR-PRG • • • 8Byte | | | |
|---|---|--|--|
| 1st character | - | For a mass-production product | |
| 2nd character 3rd character | | For representing the version in 2-digit decimal | |
| 4th character | Α | When the program is common to 43/50 (for SEQUENCE PROCESSOR) | |
| | S | When the program is only for another unit (for MDUcom) | |
| 5th character | М | Fixed | |
| 6th character | | Reservation | |
| 7th character | | Reservation | |
| 8th character | | Reservation | |

| SEQUENCE-Data • • • 8Byte | | |
|--|---|---|
| 1st - 3rd characters Num For representing the version in 3-digit decimal | | For representing the version in 3-digit decimal |
| 4th character | W | When the sequence data are only for 50 |
| | Х | When the sequence data are only for 43 |

• For the version indication, the bytes reserved for special use must be replaced with spaces if they are not used.

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■ Acquisition of panel operation data • • • [QS2]

The command QS2 is for acquiring data on the panel's operations. Basically, this command is used for the module's microcomputer to inform the main unit's microcomputer of changes in panel operation.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|--|--|
| [QS2] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+23(DATA)+2(CS)=28Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--------------------------------------|----------------|----------------|
| ECO | | 3Byte | QS2 |
| 1 | Notification of mode shifting to STB | 1Byte | 1 |
| 2 | Flag for adjustment of the main unit | 1Byte | 0 |
| 3 | Flag for adjustment-data backup | 1Byte | 0 |
| 4 | "1st PD" data | 1Byte | 0 |
| 5 | "2nd PD" data | 1Byte | 0 |
| 6 | Reservation | 3Byte | *** |
| 7 | Temperature data (TEMP 1) | 3Byte | 128 |
| 8 | SD main data | 1Byte | 0 |
| 9 | SD subdata | 1Byte | 0 |
| 10 | Operation status induced by SD | 1Byte | 0 |
| 11 | Data from the hour meter | 8Byte | 00000259 |
| 12 | MASK indication | 1Byte | 0 |
| cs | | 2Byte | 4A |

Note: "00000259" of "Data from the hour meter" means 2 hours 59 minuts.

 Notification of mode shifting to Standby

Entering Standby mode failed **Entering Standby** mode succeeded

| Adjustment of the main unit | | |
|-----------------------------|--------------------------|--|
| 0 | Adjustment completed | |
| 1 | Adjustment not completed | |

| Adjustment-data backup | |
|------------------------|------------------|
| 0 | With backup data |
| 1 | No data |

| ● PD data | | |
|-----------|-------------------------|--|
| 0 | No PD data | |
| 1 | Not used | |
| 2 | POWER | |
| 3 | SCAN | |
| 4 | SCN-5V | |
| 5 | Not used | |
| 6 | Y-DCDC | |
| 7 | Y-SUS | |
| 8 | ADRS | |
| 9 | X-DRV | |
| Α | X-DCDC | |
| В | X-SUS | |
| С | Not used | |
| D | SQ-IC | |
| Е | Not used | |
| F | Specification inability | |

| ● SD | SD main data | |
|------|-------------------------------|--|
| 0 | No SD | |
| 1 | SQ-IC | |
| 2 | MDU-IIC | |
| 3 | RST2 | |
| 4 | Panel having high temperature | |
| 5 | Short-circuited speaker | |
| | | |

| ● SD subdata (IIC) | | |
|--------------------|---------------|--|
| 0 | No SD subdata | |
| 1 | EEPROM | |
| 2 | BACKUP | |
| 3 | DAC | |
| 4 | VOL IC | |
| 5 | DVI | |

| Operation status induced by SD | |
|--|---------------------------|
| 0 | Normal |
| 1 | Relay-off completed |
| 2 | During warning indication |

| • MA | SK indication |
|------|---------------|
| 0 | MASK-OFF |
| 1 | MASK-ON |

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■ Acquisition of other data on the panel • • • [QIP]

The command QIP is for acquiring data other than those available with QS1 (data necessary before turning the power on) and QS2 (data to inform of operational status change).

| Command Format | Effective Operation Modes | Function | Remarks |
|----------------|---------------------------|--|--|
| [QIP] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+39(DATA)+2(CS)=44Byte |

| Data Arrangement | | Data Length | Output Example |
|------------------|---------------|----------------|----------------|
| ECO | | 3Byte | QIP |
| 1 | SERIAL | 15Byte | |
| 2 | HOUR METER | 8Byte | 00000000 |
| 3 | BACKUP HR MTR | 8Byte | 00000000 |
| 4 | PON COUNTER | 8Byte | 00000000 |
| cs | | 2Byte | 94 |

Note: The real product serial number is displayed in "SERIAL".

■ Acquisition of panel adjustment data (common data) • • • [QAJ]

The command QAJ is for acquiring data on the panel's factory-preset items that are common to the main unit and that share the same memory.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|--|--|
| [QAJ] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+27(DATA)+2(CS)=32Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--------------------------|----------------|----------------|
| ECO | | 3Byte | QAJ |
| 1 | V-SUS adjustment value | 3Byte | 128 |
| 2 | V-OFT adjustment value | 3Byte | 128 |
| 3 | V-RST-P adjustment value | 3Byte | 128 |
| 4 | XSB adjustment value | 3Byte | 128 |
| 5 | YSB adjustment value | 3Byte | 128 |
| 6 | YTG adjustment value | 3Byte | 128 |
| 7 | YTW adjustment value | 3Byte | 128 |
| 8 | RSW adjustment value | 3Byte | 128 |
| 9 | R-RIVISE setting value | 1Byte | 0 |
| 10 | G-RIVISE setting value | 1Byte | 0 |
| 11 | B-RIVISE setting value | 1Byte | 0 |
| cs | | 2Byte | B7 |

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Ε

■ Acquisition of ABL/WB adjustment data • • • [QPW]

The command QPW is for acquiring data on the panel's factory-preset items whose memory tables are changed in sequence.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|--|--|
| [QPW] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+35(DATA)+2(CS)=40Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|-------------------------------------|----------------|-------------------|
| ECO | | 3Byte | QPW |
| 1 | Drive sequence | 3Byte | 60V |
| 2 | Standard/nonstandard | 1Byte | S |
| 3 | Type of ABL/WB tables | 2Byte | T2 |
| 4 | ABL adjustment value | 3Byte | 128 |
| 5 | R-HIGH adjustment value | 3Byte | 256 |
| 6 | G-HIGH adjustment value | 3Byte | 256 |
| 7 | B-HIGH adjustment value | 3Byte | 256 |
| 8 | R-LOW adjustment value | 3Byte | 512 |
| 9 | G-LOW adjustment value | 3Byte | 512 |
| 10 | B-LOW adjustment value | 3Byte | 512 |
| 11 | Gamma setting | 1Byte | Α |
| 12 | Streaking correction | 1Byte | 1 |
| 13 | Peripheral luminance correction | 1Byte | 0 |
| 14 | Reservation | 1Byte | * |
| 15 | WB interlocked with APL | 1Byte | 0 |
| 16 | Transition of protective operations | 1Byte | 0 |
| 17 | Reservation | 2Byte | ** |
| cs | | 2Byte | 37 |

| Driv | ve sequence |
|------------------------|-------------|
| 48V | Video48 Hz |
| 50V | Video50 Hz |
| 60V | Video60 Hz |
| 72V | Video72 Hz |
| 75V | Video75 Hz |
| 60P | PC60Hz |
| 70P | PC70Hz |
| | |

| ● Setting for Items 12 and 15 | | |
|-------------------------------|------|--|
| 0 | OFF | |
| 1 | ON | |
| | 1011 | |

| Peripheral luminance correction | | |
|------------------------------------|---------------------------|--|
| 0 | OFF | |
| 2 | ON (interlocked with APL) | |

| Standard/ nonstandard | | | | |
|---------------------------|--|--|--|--|
| S Standard | | | | |
| N Nonstandard | | | | |

| Transition of brightness by protective operations | | | | |
|---|----------------------------|--|--|--|
| 0 Upper limit state for brightness | | | | |
| 1 | 1 Brightness being reduced | | | |
| 2 Lower limit state for brightness | | | | |
| 3 | Brightness heing increased | | | |

| Gamma setting | | | | |
|---------------|--|--|--|--|
| n 0 to F | | | | |

| ● Type of ABL/WB tables | | | | |
|-------------------------|-----------|--|--|--|
| Tn | n: 1 to 4 | | | |

■ Acquisition of parameters • • • [QPM]

The command QPM is for acquiring the accumulated number of pulses for each of 5 blocks from the EEPROM.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|--|--|
| [QPM] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+40(DATA)+2(CS)=45Bvte |

| Data Arrangement | | Data Length | Output Example |
|------------------|-----------------|----------------|----------------|
| ECO | | 3Byte | QPM |
| 1 | Pulse meter B 1 | 8Byte | 00000000 |
| 2 | Pulse meter B 2 | 8Byte | 00000000 |
| 3 | Pulse meter B 3 | 8Byte | 00000000 |
| 4 | Pulse meter B 4 | 8Byte | 00000000 |
| 5 | Pulse meter B 5 | 8Byte | 00000000 |
| cs | | 2Byte | E7 |

[•] The output data on the accumulated number of pulses for each block are calculated in the following way: the high-order 4 bytes of the accumulated number of pulses for each block are converted into a decimal number, and the high-order 8 digits are transmitted. The unit of each block is M_pulse (mega).

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Ε

В

PDP-506PE

- 4

3

■ Acquisition of PD logs • • • [QPD]

The command QPD is for acquiring data from the 8 latest power-down (PD) logs.

| Command Format | Effective Operation Modes | Function | Remarks |
|----------------|---------------------------|--|--|
| [QPD] | All operations | To acquire data on the power-down logs | Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--|----------------|----------------|
| ECO | ECO | | QPD |
| 1 | Latest "1st PD" data | 1byte | Α |
| 2 | Latest "2nd PD" data | 1byte | 2 |
| 3 | Data from the hour meter for the latest PD | 8byte | 00010020 |
| 4 | Second latest "1st PD" data | 1byte | E |
| 5 | Second latest "2nd PD" data | 1byte | 9 |
| 6 | Data from the hour meter for the second latest PD | 8byte | 00008523 |
| 7 | Third latest "1st PD" data | 1byte | 4 |
| 8 | Third latest "2nd PD" data | 1byte | 3 |
| 9 | Data from the hour meter for the third latest PD | 8byte | 00004335 |
| 10 | Fourth latest "1st PD" data | 1byte | 2 |
| 11 | Fourth latest "2nd PD" data | 1byte | 0 |
| 12 | Data from the hour meter for the fourth latest PD | 8byte | 00000945 |
| 13 | Fifth latest "1st PD" data | 1byte | 4 |
| 14 | Fifth latest "2nd PD" data | 1byte | 0 |
| 15 | Data from the hour meter for the fifth latest PD | 8byte | 00000715 |
| 16 | Sixth latest "1st PD" data | 1byte | Α |
| 17 | Sixth latest "2nd PD" data | 1byte | 2 |
| 18 | Data from the hour meter for the sixth latest PD | 8byte | 00000552 |
| 19 | Seventh latest "1st PD" data | 1byte | Α |
| 20 | Seventh latest "2nd PD" data | 1byte | 0 |
| 21 | Data from the hour meter for the seventh latest PD | 8byte | 00000213 |
| 22 | Eighth latest "1st PD" data | 1byte | D |
| 23 | Eighth latest "2nd PD" data | 1byte | 0 |
| 24 | Data from the hour meter for the eighth latest PD | 8byte | 000001A7 |
| cs | | 2Byte | 27 |

| ● PD data | | | |
|-----------|-------------------------|--|--|
| 0 | No PD | | |
| 1 | Not used | | |
| 2 | P-POWER | | |
| 3 | SCAN | | |
| 4 | SCN-5V | | |
| 5 | Not used | | |
| 6 | Y-DCDC | | |
| 7 | Y-SUS | | |
| 8 | Address | | |
| 9 | X-DRIVE | | |
| Α | X-DCDC | | |
| В | X-SUS | | |
| С | DIG-DCDC | | |
| D | QS (driving stopped) | | |
| Е | Not used | | |
| F | Specification inability | | |

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В

С

D

Е

■ Acquisition of SD logs • • • [QSD]

The command QSD is for acquiring the data from the 8 latest shutdown (SD) logs.

| Command Format | Effective Operation Modes | Function | Remarks |
|----------------|------------------------------|--------------------------------------|--|
| [QSD] | All operations | To acquire data on the shutdown logs | Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--|----------------|----------------|
| ECO | | 3Byte | QSD |
| 1 | Latest SD data | 1byte | 1 |
| 2 | Latest SD subcategory data | 1byte | 0 |
| 3 | Data from the hour meter for the latest SD | 8byte | 00752013 |
| 4 | Second latest SD data | 1byte | 5 |
| 5 | Second latest SD subcategory data | 1byte | 0 |
| 6 | Data from the hour meter for the second latest SD | 8byte | 00495204 |
| 7 | Third latest SD data | 1byte | 2 |
| 8 | Third latest SD subcategory data | 1byte | 3 |
| 9 | Data from the hour meter for the third latest SD | 8byte | 00100355 |
| 10 | Fourth latest SD data | 1byte | 2 |
| 11 | Fourth latest SD subcategory data | 1byte | 5 |
| 12 | Data from the hour meter for the fourth latest SD | 8byte | 00075620 |
| 13 | Fifth latest SD data | 1byte | 1 |
| 14 | Fifth latest SD subcategory data | 1byte | 0 |
| 15 | Data from the hour meter for the fifth latest SD | 8byte | 00000852 |
| 16 | Sixth latest SD data | 1byte | 2 |
| 17 | Sixth latest SD subcategory data | 1byte | 5 |
| 18 | Data from the hour meter for the sixth latest SD | 8byte | 000000451 |
| 19 | Seventh latest SD data | 1byte | 0 |
| 20 | Seventh latest SD subcategory data | 1byte | 0 |
| 21 | Data from the hour meter for the seventh latest SD | 8byte | 00000000 |
| 22 | Eighth latest SD data | 1byte | 0 |
| 23 | Eighth latest SD subcategory data | 1byte | 0 |
| 24 | Data from the hour meter for the eighth latest SD | 8byte | 00000000 |
| cs | | 2Byte | 7D |

| • SD | ● SD data | | | | |
|------|-------------------------------|--|--|--|--|
| 0 | No SD | | | | |
| 1 | SQ-IC | | | | |
| 2 | MDU-IIC | | | | |
| 3 | RST2 | | | | |
| 4 | Panel having high temperature | | | | |
| 5 | Short-circuited speaker | | | | |

| • SD | ● SD subcategory | | | |
|------|-------------------|--|--|--|
| 0 | No SD subcategory | | | |
| 1 | EEPROM | | | |
| 2 | BACKUP | | | |
| 3 | DAC | | | |
| 4 | VOL-IC | | | |
| 5 | DVI | | | |
| 6 | Not used | | | |

Е

В

■ Acquisition of input signal data • • • [QSI]

The command QSI is for acquiring all data on input video signals.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|--|--|
| [QSI] | All operations | To acquire all data on input video signals | Return data: 3 (ECO)+66(DATA)+2(CS)=71Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--|----------------|----------------|
| ECO | | 3Byte | QSI |
| 1 | Type of drive sequence | 3byte | 60V |
| 2 | Standard/nonstandard | 1byte | S |
| 3 | Type of ABL/WB tables | 2byte | T1 |
| 4 | Total value of PCN | 4byte | 0256 |
| 5 | Total value of PRH | 4byte | 0256 |
| 6 | Total value of PGH | 4byte | 0256 |
| 7 | Total value of PBH | 4byte | 0256 |
| 8 | Total value of PBR | 4byte | 0512 |
| 9 | Total value of PRL | 4byte | 0512 |
| 10 | Total value of PGL | 4byte | 0512 |
| 11 | Total value of PBL | 4byte | 0512 |
| 12 | Reservation | 2byte | ** |
| 13 | Detection of existence of H | 1byte | Υ |
| 14 | Detection of V frequency | 4byte | 6002 |
| 15 | Reservation | 4byte | **** |
| 16 | Obtained APL data | 4byte | 1023 |
| 17 | Number of SUS pulses | 4byte | 0457 |
| 18 | Result of detection of still picture | 1byte | 1 |
| 19 | Result of detection of cracking in the panel | 1byte | 1 |
| 20 | Result of detection for scanning protection | 1byte | 1 |
| 21 | Result of detection for external protection | 1byte | 1 |
| 22 | Transition of protection operation | 1byte | 0 |
| 23 | Reservation | 4byte | **** |
| cs | | 2Byte | 27 |

| Detection of existence of H | | | |
|---|------------|--|--|
| N | No H | | |
| Υ | H detected | | |

| Transition of brightness by protection operation | | | | |
|--|----------------------------------|--|--|--|
| 0 | Upper limit state for brightness | | | |
| 1 | Brightness being reduced | | | |
| 2 Lower limit state for brightness | | | | |
| 3 | Brightness being increased | | | |

- If data for an item cannot be obtained during Standby mode, the return data for that item will be "*."
- The types of data for Items 1-3 in the table (drive sequence, standard/nonstandard, and type of ABL/WB tables) are the same as with the command QPW.
- Each total value for Items 4-11 represents that of panel WB, user WB, and degradation correction, and the actual data being sent to the ASTRA are output.
- Detection of V frequency: The V signal input to the panel is measured in the range of 30.51 to 99.99 Hz. The measured value is multiplied by 100 and then output.
- Number of SUS pulses : The number is calculated from data from APL and the drive sequence. The output value must be between 0174 and 2752.
- APL value: The APL value for the input video signal (or mask indication) will be output in the range of 0000 to 1023.

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Ε

■ Setting for Factory mode permission/prohibition • • • [FAY/FAN] [PFY/PFN]

The commands FAY/FAN and PFY/PFN are for prohibiting/permitting panel-adjustment commands during normal operation and are to be used to avoid accidental change of panel adjustment values.

| 0 | Oį | peration | | | |
|-------------------|---------------------------|---------------------------------------|---|--|--|
| Command Format | Effective Operation Modes | Control (by the microcomputer itself) | Remarks | | |
| [FAY] | Normal operation mode | | Mask indications will be forcibly turned off. | | |
| [PFY] | while the power is on | Adjustment mode: ON | With a PFY command, the mask does not change. | | |
| [FAN] | During FAV | A division and in a day OFF | | | |
| [PFN] | During FAY | Adjustment mode: OFF | | | |

• Commands that are effective during normal operation will also be effective during FAY (PFY) mode.

Note:

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• The functions shown below will be forcibly switched when Mask ON/OFF is switched. (Even if the panel is off, changed settings will be retained.)

While the status of Mask ON or OFF is maintained, if settings for the individual functions shown in ① and ② are changed, those settings are retained (even if the drive frequency is changed).

1) Functions related to picture quality

| Function | Setting while Mask is ON | Setting while Mask is OFF | Remarks |
|------------------------------------|--------------------------|---------------------------|---------|
| Peripheral luminance correction | OFF | ON | |
| WB correction interlocked with APL | OFF | ON | |
| Streaking correction | OFF | ON | |

2 Functions related to panel protection

| Function | Setting while Mask is ON | Setting while Mask is OFF | Remarks |
|------------------------------------|--------------------------|---------------------------|---------|
| Detection of still picture | OFF | ON | |
| Detection of cracking in the panel | OFF | ON | |
| Scanning protection | OFF | ON | |

• Depending on the type of mask displayed, phosphor burn of the panel may occur. As the panel-protection function is forcibly turned off with this model, care must be taken when color-bar signals are to be displayed for an extended period.

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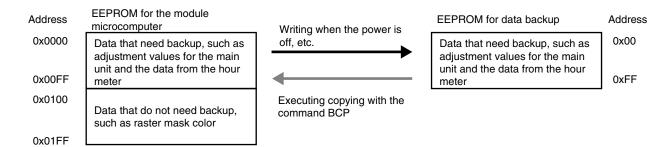
■ Backup function for adjustment values for the main unit • • • [FAJ/UAJ/CBU/BCP]

When the HD DIGITAL Assy is to be replaced, adjustment values can be copied from the backup EEPROM to the EEPROM of the Assy for service.

| Command | | | | |
|-------------------|---------------------------|--|--|--------------------------------|
| Command Format | Effective Operation Modes | Control (by the | Remarks | |
| [FAJ] | | To make the flag setting that indicating that adjustment of the main unit has been completed | Writing 00 to the 4-kbyte ROM and copying to the 2-kbyte ROM | This takes at least 350 ms. |
| [UAJ] | During FAY | To make the flag setting that indicating that adjustment of the main unit has not been completed | Writing F0 to the 4-kbyte ROM | |
| [CBU] | | To make the flag setting that indicating that backup data have not been copied | Writing F0 to the 2-kbyte ROM | The backup ROM is initialized. |
| [BCP] | | To make the flag setting that indicating that backup data have been copied | Copying backup data | |

When the flag indicating that the line adjustments (SUS waveform, voltage margin, and panel WB) for the main unit have been completed is set to on, data stored from Addresses 0x0000 to 0X00FF in the digital EEPROM are copied to the same addresses of the backup EEPROM. Copying will be executed immediately before the relay of normal operation is off.

- When the command BCP is received while a warning indicating that backup copying has not been completed is displayed (conditions: main EEPROM = not adjusted, and backup EEPROM = adjusted), backed-up data will be copied to the main EEPROM, and various adjustment values related to Factory mode will be readjusted. Then LED warning indication will be shut off, and normal LED indication will be restored.
- If the backup EEPROM has not been adjusted when the command BCP is received (0x0063 is not written to all three addresses of the key data), copying of the backup data is not possible, and "XXX" is returned.



Note:

- When the command FAJ, UAJ, or CBU is executed, only high-order one-byte (0x00 or 0xF0) key data will be written to the EEPROM, and lower-order one-byte (0x63) data will not be changed.
- It takes at least 350 ms from reception of the command FAJ until an echo is sent back, because data are copied to the backup EEPROM.

■ Factory presetting • • • [PFS]

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| Command | | Operation | | | | | |
|---------|---------------------------|--------------------------------------|---------------------------------------|--|--|--|--|
| Format | Effective Operation Modes | Control (by the micro | Control (by the microcomputer itself) | | | | |
| [PFS] | During FAY | Initialized to factory-preset values | | | | | |

• When this command is executed, the values not stored in the EEPROM are initialized, mask indication is set to OFF, control of the power for line aging is set to OFF, and detection of the system cable is set to ON.

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PDP-506PE

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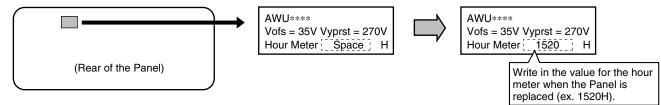
6.3 METHOD FOR REPLACING THE SERVICE PANEL ASSY

When the Panel Assy is replaced with one for service, the following adjustments are required:

■ Adjustments of Vofs voltage and Vyprst voltage

Enter the reference adjustment values for the Vofs voltage and Vyprst voltage that are written on the label attached to the panel for service.

Note: Enter the values, using an RS-232C command or the Factory Menu.



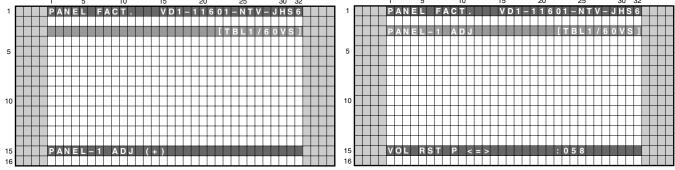
Using an RS-232C command

Enter a "PFY" command with Factory mode ON.

Convert the adjustment voltage values written on the label attached at the rear of the Panel to an input command, referring to the conversion chart. (See the next page.)

- Reference adjustment of the Vofs voltage: Ex. "Vofs = 35" → (Check the conversion chart.) Enter "VOF112."
- Reference adjustment of the Vyprst voltage: Ex. 50-inch "Vyprst = 270 V" → (Check the conversion chart.) Enter "VRP055." (Note that the conversion charts for 50-inch and 43-inch Panels are different.)

Using the Factory Menu



Select the main item "PANEL FACT." by pressing the MUTE key then enter Panel Factory mode by pressing the SET key. Using the \triangle/∇ keys, select "PANEL-1 ADJ" then press the SET key to enter the next lower nested layer. Select "VOL-OFFSET" or "VOL RST P" then enter a command value converted from the voltage value, using the $\blacktriangleleft/\triangleright$ keys.

■ Clearing data on various histories of the Panel, such as those on the hour meter

- It is necessary to clear the data on the hour meter, etc. to match them to the actual driving hours of the Panel.
- It is also necessary to clear the data on SD and PD, because the accumulated power-on time when a shutdown or power-down occurred is recorded.

Note: Clear the values, using an RS-232C command or the Factory Menu.

There are two types of hour meters. Do not take the MR hour meter for the hour meter.

Using an RS-232C command

To acquire the accumulated power-on time of the product itself, use the "GS2" RS-232C command.

1 To clear the data on the hour meter (for the Panel) : CHM
2 To clear the data on the pulse meter : CPM
3 To clear the data on the SD history : CSD
4 To clear the data on the PD history : CPD

Using the Factory Menu

See "7.1.7 HOW TO CLEAR HISTORY DATA."

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■ Conversion charts for electronic VRs: Conversion chart for the Vofs

| Jonversion | | e vots (Com | | Common voi | | for the 50-ii | | inch models | • |
|------------|--|-------------|--|------------|--|---------------|--|-------------|---|
| Command | Voltage value [V] for common sizes | Command | Voltage value [V] for common sizes | Command | Voltage value [V] for common sizes | Command | Voltage value [V] for common sizes | Command | Voltage value [V] for common size |
| VOF000 | 14.09 | VOF056 | 24.55 | VOF112 | 35.01 | VOF168 | 45.47 | VOF224 | 55.93 |
| VOF001 | 14.28 | VOF057 | 24.74 | VOF113 | 35.20 | VOF169 | 45.66 | VOF225 | 56.12 |
| VOF002 | 14.46 | VOF058 | 24.92 | VOF114 | 35.38 | VOF170 | 45.85 | VOF226 | 56.31 |
| VOF003 | 14.65 | VOF059 | 25.11 | VOF115 | 35.57 | VOF171 | 46.03 | VOF227 | 56.49 |
| VOF004 | 14.84 | VOF060 | 25.30 | VOF116 | 35.76 | VOF172 | 46.22 | VOF228 | 56.68 |
| VOF005 | 15.02 | VOF061 | 25.48 | VOF117 | 35.95 | VOF173 | 46.41 | VOF229 | 56.87 |
| VOF006 | 15.21 | VOF062 | 25.67 | VOF118 | 36.13 | VOF174 | 46.59 | VOF230 | 57.05 |
| VOF007 | 15.40 | VOF063 | 25.86 | VOF119 | 36.32 | VOF175 | 46.78 | VOF231 | 57.24 |
| VOF008 | 15.58 | VOF064 | 26.04 | VOF120 | 36.51 | VOF176 | 46.97 | VOF232 | 57.43 |
| VOF009 | 15.77 | VOF065 | 26.23 | VOF121 | 36.69 | VOF177 | 47.15 | VOF233 | 57.61 |
| VOF010 | 15.96 | VOF066 | 26.42 | VOF122 | 36.88 | VOF178 | 47.34 | VOF234 | 57.80 |
| VOF011 | 16.14 | VOF067 | 26.61 | VOF123 | 37.07 | VOF179 | 47.53 | VOF235 | 57.99 |
| VOF012 | 16.33 | VOF068 | 26.79 | VOF124 | 37.25 | VOF180 | 47.71 | VOF236 | 58.17 |
| VOF013 | 16.52 | VOF069 | 26.98 | VOF125 | 37.44 | VOF181 | 47.90 | VOF237 | 58.36 |
| VOF014 | 16.70 | VOF070 | 27.17 | VOF126 | 37.63 | VOF182 | 48.09 | VOF238 | 58.55 |
| VOF015 | 16.89 | VOF071 | 27.35 | VOF127 | 37.81 | VOF183 | 48.27 | VOF239 | 58.73 |
| VOF016 | 17.08 | VOF072 | 27.54 | VOF128 | 38.00 | VOF184 | 48.46 | VOF240 | 58.92 |
| VOF017 | 17.27 | VOF073 | 27.73 | VOF129 | 38.19 | VOF185 | 48.65 | VOF241 | 59.11 |
| VOF018 | 17.45 | VOF074 | 27.91 | VOF130 | 38.37 | VOF186 | 48.83 | VOF242 | 59.30 |
| VOF019 | 17.64 | VOF075 | 28.10 | VOF131 | 38.56 | VOF187 | 49.02 | VOF243 | 59.48 |
| VOF020 | 17.83 | VOF076 | 28.29 | VOF132 | 38.75 | VOF188 | 49.21 | VOF244 | 59.67 |
| VOF021 | 18.01 | VOF077 | 28.47 | VOF133 | 38.93 | VOF189 | 49.39 | VOF245 | 59.86 |
| VOF022 | 18.20 | VOF078 | 28.66 | VOF134 | 39.12 | VOF190 | 49.58 | VOF246 | 60.04 |
| VOF023 | 18.39 | VOF079 | 28.85 | VOF135 | 39.31 | VOF191 | 49.77 | VOF247 | 60.23 |
| VOF024 | 18.57 | VOF080 | 29.03 | VOF136 | 39.49 | VOF192 | 49.96 | VOF248 | 60.42 |
| VOF025 | 18.76 | VOF081 | 29.22 | VOF137 | 39.68 | VOF193 | 50.14 | VOF249 | 60.60 |
| VOF026 | 18.95 | VOF082 | 29.41 | VOF138 | 39.87 | VOF194 | 50.33 | VOF250 | 60.79 |
| VOF027 | 19.13 | VOF083 | 29.59 | VOF139 | 40.05 | VOF195 | 50.52 | VOF251 | 60.98 |
| VOF028 | 19.32 | VOF084 | 29.78 | VOF140 | 40.24 | VOF196 | 50.70 | VOF252 | 61.16 |
| VOF029 | 19.51 | VOF085 | 29.97 | VOF141 | 40.43 | VOF197 | 50.89 | VOF253 | 61.35 |
| VOF030 | 19.69 | VOF086 | 30.15 | VOF142 | 40.62 | VOF198 | 51.08 | VOF254 | 61.54 |
| VOF031 | 19.88 | VOF087 | 30.34 | VOF143 | 40.80 | VOF199 | 51.26 | VOF255 | 61.72 |
| VOF032 | 20.07 | VOF088 | 30.53 | VOF144 | 40.99 | VOF200 | 51.45 | | |
| VOF033 | 20.25 | VOF089 | 30.71 | VOF145 | 41.18 | VOF201 | 51.64 | | |
| VOF034 | 20.44 | VOF090 | 30.90 | VOF146 | 41.36 | VOF202 | 51.82 | | |
| VOF035 | 20.63 | VOF091 | 31.09 | VOF147 | 41.55 | VOF203 | 52.01 | | |
| VOF036 | 20.81 | VOF092 | 31.28 | VOF148 | 41.74 | VOF204 | 52.20 | | |
| VOF037 | 21.00 | VOF093 | 31.46 | VOF149 | 41.92 | VOF205 | 52.38 | | |
| VOF038 | 21.19 | VOF094 | 31.65 | VOF150 | 42.11 | VOF206 | 52.57 | | |
| VOF039 | 21.37 | VOF095 | 31.84 | VOF151 | 42.30 | VOF207 | 52.76 | | |
| VOF040 | 21.56 | VOF096 | 32.02 | VOF152 | 42.48 | VOF208 | 52.94 | | |
| VOF041 | 21.75 | VOF097 | 32.21 | VOF153 | 42.67 | VOF209 | 53.13 | | |
| VOF042 | 21.94 | VOF098 | 32.40 | VOF154 | 42.86 | VOF210 | 53.32 | | |
| VOF043 | 22.12 | VOF099 | 32.58 | VOF155 | 43.04 | VOF211 | 53.50 | | |
| VOF044 | 22.31 | VOF100 | 32.77 | VOF156 | 43.23 | VOF212 | 53.69 | | |
| VOF045 | 22.50 | VOF101 | 32.96 | VOF157 | 43.42 | VOF213 | 53.88 | | |
| VOF046 | 22.68 | VOF102 | 33.14 | VOF158 | 43.60 | VOF214 | 54.06 | | |
| VOF047 | 22.87 | VOF103 | 33.33 | VOF159 | 43.79 | VOF215 | 54.25 | | |
| VOF048 | 23.06 | VOF104 | 33.52 | VOF160 | 43.98 | VOF216 | 54.44 | | |
| VOF049 | 23.24 | VOF105 | 33.70 | VOF161 | 44.16 | VOF217 | 54.63 | | |
| VOF050 | 23.43 | VOF106 | 33.89 | VOF162 | 44.35 | VOF218 | 54.81 | | |
| VOF051 | 23.62 | VOF107 | 34.08 | VOF163 | 44.54 | VOF219 | 55.00 | | |
| VOF052 | 23.80 | VOF108 | 34.26 | VOF164 | 44.72 | VOF220 | 55.19 | | |
| VOF053 | 23.99 | VOF109 | 34.45 | VOF165 | 44.91 | VOF221 | 55.37 | | |
| VOF054 | 24.18 | VOF110 | 34.64 | VOF166 | 45.10 | VOF222 | 55.56 | | |
| VOF055 | 24.36 | VOF111 | 34.82 | VOF167 | 45.29 | VOF223 | 55.75 | | |

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■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (1/2)

| Conversion chart for the Vyprst (Commands vs. Voltage values for the 50-inch and 43-inch models) | | | | | | | | | |
|--|----------------|----------------|------------------|----------------|----------------|------------------|----------------|----------------|--|
| Command | Voltage [V] | | Command | Voltage [V] | | Command | | Voltage [V] | |
| \/DD000 | 50-inch Model | | \/DD050 | 50-inch Model | | \/DD446 | 50-inch Model | | |
| VRP000 | 246.3 | 236.3 | VRP056 | 270.6 | 260.6 | VRP112 | 294.9 | 284.9 | |
| VRP001 | 246.7 | 236.7 | VRP057 | 271.0 | 261.0 | VRP113 | 295.4 | 285.4 | |
| VRP002 VRP003 | 247.1 247.6 | 237.1 | VRP058 | 271.5 | 261.5 | VRP114 | 295.8 | 285.8 | |
| | | | VRP059 | 271.9 | 261.9 | VRP115 | 296.2 | 286.2 | |
| VRP004 VRP005 | 248.0 248.4 | 238.0 238.4 | VRP060 | 272.3 | 262.3 | VRP116 | 296.7 297.1 | 286.7 | |
| VRP006 | 248.9 | 238.9 | VRP061 VRP062 | 272.8 273.2 | 262.8 263.2 | VRP117 VRP118 | 297.5 | 287.1 287.5 | |
| VRP007 | 249.3 | 239.3 | VRP063 | 273.6 | 263.6 | VRP119 | 298.0 | 288.0 | |
| VRP008 | 249.7 | 239.7 | VRP064 | 274.1 | 264.1 | VRP120 | 298.4 | 288.4 | |
| VRP009 | 250.2 | 240.2 | VRP065 | 274.1 | 264.5 | VRP121 | 298.8 | 288.8 | |
| VRP010 | 250.2 | 240.2 | VRP066 | 274.9 | 264.9 | VRP121 | 299.3 | 289.3 | |
| VRP010 | 250.0 | 240.0 | VRP067 | 274.9 | 265.4 | VRP123 | 299.7 | 289.7 | |
| VRP011 | 251.0 | 241.5 | VRP068 | 275.4 | 265.8 | VRP123 | 300.1 | 290.1 | |
| VRP012 | 251.9 | 241.9 | VRP069 | 276.2 | 266.2 | VRP125 | 300.6 | 290.1 | |
| VRP014 | 252.4 | 242.4 | VRP070 | 276.7 | 266.7 | VRP126 | 301.0 | 291.0 | |
| VRP015 | 252.8 | 242.8 | VRP071 | 277.1 | 267.1 | VRP127 | 301.4 | 291.4 | |
| VRP016 | 253.2 | 243.2 | VRP072 | 277.5 | 267.1 | VRP128 | 301.9 | 291.4 | |
| VRP017 | 253.7 | 243.7 | VRP073 | 278.0 | 268.0 | VRP129 | 302.3 | 292.3 | |
| VRP018 | 254.1 | 244.1 | VRP074 | 278.4 | 268.4 | VRP130 | 302.7 | 292.7 | |
| VRP019 | 254.5 | 244.5 | VRP075 | 278.9 | 268.9 | VRP131 | 303.2 | 293.2 | |
| VRP020 | 255.0 | 245.0 | VRP076 | 279.3 | 269.3 | VRP132 | 303.6 | 293.6 | |
| VRP021 | 255.4 | 245.4 | VRP077 | 279.7 | 269.7 | VRP133 | 304.0 | 294.0 | |
| VRP022 | 255.8 | 245.8 | VRP078 | 280.2 | 270.2 | VRP134 | 304.5 | 294.5 | |
| VRP023 | 256.3 | 246.3 | VRP079 | 280.6 | 270.6 | VRP135 | 304.9 | 294.9 | |
| VRP024 | 256.7 | 246.7 | VRP080 | 281.0 | 271.0 | VRP136 | 305.3 | 295.3 | |
| VRP025 | 257.1 | 247.1 | VRP081 | 281.5 | 271.5 | VRP137 | 305.8 | 295.8 | |
| VRP026 | 257.6 | 247.6 | VRP082 | 281.9 | 271.9 | VRP138 | 306.2 | 296.2 | |
| VRP027 | 258.0 | 248.0 | VRP083 | 282.3 | 272.3 | VRP139 | 306.7 | 296.7 | |
| VRP028 | 258.4 | 248.4 | VRP084 | 282.8 | 272.8 | VRP140 | 307.1 | 297.1 | |
| VRP029 | 258.9 | 248.9 | VRP085 | 283.2 | 273.2 | VRP141 | 307.5 | 297.5 | |
| VRP030 | 259.3 | 249.3 | VRP086 | 283.6 | 273.6 | VRP142 | 308.0 | 298.0 | |
| VRP031 | 259.7 | 249.7 | VRP087 | 284.1 | 274.1 | VRP143 | 308.4 | 298.4 | |
| VRP032 | 260.2 | 250.2 | VRP088 | 284.5 | 274.5 | VRP144 | 308.8 | 298.8 | |
| VRP033 | 260.6 | 250.6 | VRP089 | 284.9 | 274.9 | VRP145 | 309.3 | 299.3 | |
| VRP034 | 261.0 | 251.0 | VRP090 | 285.4 | 275.4 | VRP146 | 309.7 | 299.7 | |
| VRP035 | 261.5 | 251.5 | VRP091 | 285.8 | 275.8 | VRP147 | 310.1 | 300.1 | |
| VRP036 | 261.9 | 251.9 | VRP092 | 286.2 | 276.2 | VRP148 | 310.6 | 300.6 | |
| VRP037 | 262.3 | 252.3 | VRP093 | 286.7 | 276.7 | VRP149 | 311.0 | 301.0 | |
| VRP038 | 262.8 | 252.8 | VRP094 | 287.1 | 277.1 | VRP150 | 311.4 | 301.4 | |
| VRP039 | 263.2 | 253.2 | VRP095 | 287.5 | 277.5 | VRP151 | 311.9 | 301.9 | |
| VRP040 | 263.6 | 253.6 | VRP096 | 288.0 | 278.0 | VRP152 | 312.3 | 302.3 | |
| VRP041 | 264.1 | 254.1 | VRP097 | 288.4 | 278.4 | VRP153 | 312.7 | 302.7 | |
| VRP042 | 264.5 | 254.5 | VRP098 | 288.8 | 278.8 | VRP154 | 313.2 | 303.2 | |
| VRP043 | 264.9 | 254.9 | VRP099 | 289.3 | 279.3 | VRP155 | 313.6 | 303.6 | |
| VRP044 | 265.4 | 255.4 | VRP100 | 289.7 | 279.7 | VRP156 | 314.0 | 304.0 | |
| VRP045 | 265.8 | 255.8 | VRP101 | 290.1 | 280.1 | VRP157 | 314.5 | 304.5 | |
| VRP046 | 266.3 | 256.3 | VRP102 | 290.6 | 280.6 | VRP158 | 314.9 | 304.9 | |
| VRP047 | 266.7 | 256.7 | VRP103 | 291.0 | 281.0 | VRP159 | 315.3 | 305.3 | |
| VRP048 | 267.1 | 257.1 | VRP104 | 291.4 | 281.4 | VRP160 | 315.8 | 305.8 | |
| VRP049 | 267.6 | 257.6 | VRP105 | 291.9 | 281.9 | VRP161 | 316.2 | 306.2 | |
| VRP050 | 268.0 | 258.0 | VRP106 | 292.3 | 282.3 | VRP162 | 316.6 | 306.6 | |
| VRP051 | 268.4 | 258.4 | VRP107 | 292.8 | 282.8 | VRP163 | 317.1 | 307.1 | |
| VRP052 | 268.9 | 258.9 | VRP108 | 293.2 | 283.2 | VRP164 | 317.5 | 307.5 | |
| VRP053 | 269.3 | 259.3 | VRP109 | 293.6 | 283.6 | VRP165 | 317.9 | 307.9 | |
| VRP054 | 269.7 | 259.7 | VRP110 | 294.1 | 284.1 | VRP166 | 318.4 | 308.4 | |
| VRP055 | 270.2 | 260.2 | VRP111 | 294.5 | 284.5 | VRP167 | 318.8 | 308.8 | |

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■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (2/2)

| conversion cha | | | oltage values fo | or the 50-inch and | 43-inch models | |
|--------------------------------------|----------------|----------------|------------------|--------------------------|----------------|--|
| Command Voltage [V] | | | Command | Voltage [V] | | |
| | 50-inch Model | 43-inch Model | Command | 50-inch Model 43-inch Mo | | |
| VRP168 | 319.2 | 309.2 | VRP224 | 343.6 | 333.6 | |
| VRP169 | 319.7 | 309.7 | VRP225 | 344.0 | 334.0 | |
| VRP170 | 320.1 | 310.1 | VRP226 | 344.4 | 334.4 | |
| VRP171 | 320.6 | 310.6 | VRP227 | 344.9 | 334.9 | |
| VRP172 | 321.0 | 311.0 | VRP228 | 345.3 | 335.3 | |
| VRP173 | 321.4 | 311.4 | VRP229 | 345.7 | 335.7 | |
| VRP174 | 321.9 | 311.9 | VRP230 | 346.2 | 336.2 | |
| VRP175 | 322.3 | 312.3 | VRP231 | 346.6 | 336.6 | |
| VRP176 | 322.7 | 312.7 | VRP232 | 347.1 | 337.1 | |
| VRP177 | 323.2 | 313.2 | VRP233 | 347.5 | 337.5 | |
| VRP178 | 323.6 | 313.6 | VRP234 | 347.9 | 337.9 | |
| VRP179 | 324.0 | 314.0 | VRP235 | 348.4 | 338.4 | |
| VRP180 | 324.5 | 314.5 | VRP236 | 348.8 | 338.8 | |
| VRP181 | 324.9 | 314.9 | VRP237 | 349.2 | 339.2 | |
| VRP182 | 325.3 | 315.3 | VRP238 | 349.7 | 339.7 | |
| VRP183 | 325.8 | 315.8 | VRP239 | 350.1 | 340.1 | |
| VRP184 | 326.2 | 316.2 | VRP240 | 350.5 | 340.5 | |
| VRP185 | 326.6 | 316.6 | VRP241 | 351.0 | 341.0 | |
| VRP186 | 327.1 | 317.1 | VRP242 | 351.4 | 341.4 | |
| VRP187 | 327.5 | 317.5 | VRP243 | 351.8 | 341.8 | |
| VRP188 | 327.9 | | VRP244 | | 342.3 | |
| | 328.4 | 317.9 | | 352.3 | | |
| VRP189 | | 318.4 | VRP245 | 352.7 | 342.7 | |
| VRP190 | 328.8 | 318.8 | VRP246 | 353.1 | 343.1 | |
| VRP191 | 329.2 | 319.2 | VRP247 | 353.6 | 343.6 | |
| VRP192 | 329.7 | 319.7 | VRP248 | 354.0 | 344.0 | |
| VRP193 | 330.1 | 320.1 | VRP249 | 354.4 | 344.4 | |
| VRP194 | 330.5 | 320.5 | VRP250 | 354.9 | 344.9 | |
| VRP195 | 331.0 | 321.0 | VRP251 | 355.3 | 345.3 | |
| VRP196 | 331.4 | 321.4 | VRP252 | 355.7 | 345.7 | |
| VRP197 | 331.8 | 321.8 | VRP253 | 356.2 | 346.2 | |
| VRP198 | 332.3 | 322.3 | VRP254 | 356.6 | 346.6 | |
| VRP199 | 332.7 | 322.7 | VRP255 | 357.0 | 347.0 | |
| VRP200 | 333.2 | 323.2 | | | | |
| VRP201 | 333.6 | 323.6 | | | | |
| VRP202 | 334.0 | 324.0 | | | | |
| VRP203 | 334.5 | 324.5 | | | | |
| VRP204 | 334.9 | 324.9 | | | | |
| VRP205 | 335.3 | 325.3 | | | | |
| VRP206 | 335.8 | 325.8 | | | | |
| VRP207 | 336.2 | 326.2 | | | | |
| VRP208 | 336.6 | 326.6 | | | | |
| VRP209 | 337.1 | 327.1 | | | | |
| VRP210 | 337.5 | 327.5 | | | | |
| VRP211 | 337.9 | 327.9 | | | | |
| VRP212 | 338.4 | 328.4 | | | | |
| VRP213 | 338.8 | 328.8 | | | | |
| VRP214 | 339.2 | 329.2 | | | | |
| VRP215 | 339.7 | 329.7 | | | | |
| VRP216 | 340.1 | 330.1 | | | | |
| | 340.5 | 330.5 | | | | |
| VRP217 | | | | | | |
| | 341.0 | 331.0 | | | | |
| VRP217 VRP218 | | | | | | |
| VRP217 VRP218 VRP219 | 341.4 | 331.4 | | | | |
| VRP217 VRP218 VRP219 VRP220 | 341.4 341.8 | 331.4 331.8 | | | | |
| VRP217 VRP218 VRP219 | 341.4 | 331.4 | | | | |

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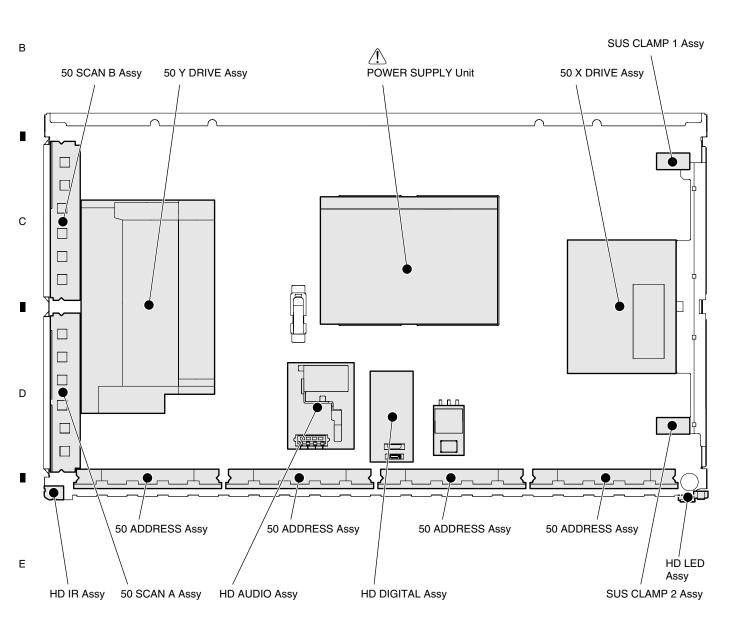
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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



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7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

• Operation statuses indicated by LEDs

| Status | | | | LED Pattern |
|----------------------------|---|---|-------------|---------------------------------|
| Standby | 1 | Lit in Red | Blue Red | |
| Power ON | 2 | Lit in Blue | Blue Red | |
| AC Power OFF of one side | 3 | Red flashes (1000ms) | Blue Red | 1000ms |
| System cable disconnection | 4 | Red and blue flash (1000ms) | Blue Red | 1000ms 1000ms |
| Power-down | 5 | Red flashes (500+2500ms) | Blue Red | Once Twice 2.5s Once 500ms |
| Shutdown | 6 | Blue flashes (500+2500ms) | | 500ms Once Twice Once 2.5s Once |
| No backup copy | 7 | Lit in Red and blue flashes (200ms) | Blue Red | 200ms |

: Lit in Red LED
: Lit in Blue LED

• PD (power-down) count

| 1 | Not used |
|----|--------------------------|
| 2 | POWER SUPPLY Unit |
| 3 | SCAN Assy |
| 4 | 5V power supply for SCAN |
| 5 | Y-DRIVE (Not used) |
| 6 | DCDC for Y drive |
| 7 | Y-SUS |
| 8 | ADDRESS Assy |
| 9 | X-DRIVE |
| 10 | DCDC for X drive |
| 11 | X-SUS |
| 12 | Not used |
| 13 | Sequence drive stop |
| 14 | Not used |
| 15 | UNKNOWN |

• SD (shut down) count

| 1 | SEQUENCE PROCESSOR (SQ_IC) |
|---|----------------------------|
| 2 | MDU-IIC |
| 3 | RST2 abnormality |
| 4 | Panel high temperature |
| 5 | Speaker short-circuit * |

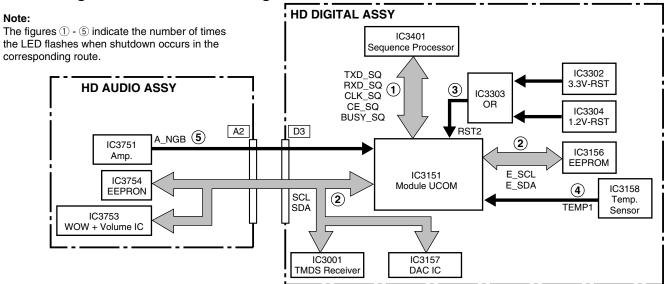
* When a jumper (J105) between the HD AUDIO Assy and the POWER SUPPLY Unit is disconnected, the SD LED flashes five times in this manner.

Note:

- When a shutdown occurs, a warning will be issued by the Media Receiver and displayed, then the power will be shut off.
- When a shutdown or power-down occurs on the Panel side, the Media Receiver will enter Standby mode (the red LED will light).

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• Diagnosis of shutdown

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| Number of flashes | SD Circuit in Operation | Defective Assy | Reason for Shutdown | Point to be Checked | Possible Defective Part | Remarks |
|-------------------|---|----------------|--|-------------------------------------|----------------------------|---|
| | | | Communication failure of IC3401 | SQ ASIC BLOCK, PANEL FLASH BLOCK | IC3401, IC3301 | |
| 1 time | Communication failure of the driving processor | HD DIGITAL | Writing failure of IC3401 | | | Check if version data can be read, using the "GS1" command, after the power is turned on again. |
| | | HD DIGITAL | Communication failure of the EEPROM (for | MODULE UCOM BLOCK | IC3156, IC3157 | |
| | | | retaining 4-Kbyte of data) | TMDS BLOCK | IC3001 | |
| 2 times | Communication failure of the IIC line (Check the SD subcategory on | HD AUDIO | Communication failure of the EEPROM (2-kbyte : for backup) | AUDIO AMP BLOCK | IC3754 | |
| | the Factory Menu.) | | Disconnection of connectors | A2 - D3 | | Check if the connectors are disconnected or are not connected securely. |
| | | | Defective volume IC | HD AUDIO Assy | IC3753 | |
| | | HD DIGITAL | Defective DC-DC converter | DIGITAL DD CON BLOCK | U3601 | Check if 3.3-V and 1.2-V power supplies are activated. |
| 3 times | Power failure of the driving | | Defective RST IC | PANEL FLASH BLOCK | IC3302 - IC3304 | |
| | processor (RST2) | | Defective IC3401 | SQ ASIC BLOCK | IC3401 | |
| | | POWER SUPPLY | The 8-V power supply is not activated. | | | Check if the 8-V power is supplied at Pin 1 of the D11 connector. |
| 4 times | Abnormally high temperature of the panel | | Abnormally high temperature of the panel | Ambient temperature | | The Panel will be shut down if the sensor detects temperature of 75°C or higher (for the PDP-436P/-506P). |
| | | | Speakers' grounding fault | Speaker terminals | | Check if the speaker cables are in contact with the chassis, etc. |
| 5 times | Audio failure | HD AUDIO | Defective AMP IC | HD AUDIO Assy | IC3751 | |
| | | HD AUDIO | Disconnection of connectors | A1 - P5 | | Check if the connectors are disconnected or are not connected securely. |

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OVP : OVER VOLTAGE PROTECT UVP : UNDER VOLTAGE PROTECT

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■ Top screen of the Factory Menu for the main unit

MR INFORMATION

< MUTE > key

FUNC. CHECK

< MUTE > key

COMMON ADJ.

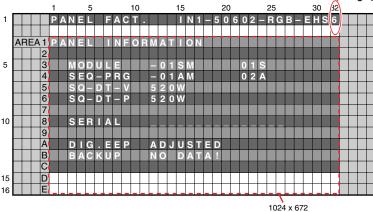
< MUTE > key
PANEL FACTORY

< SET > key

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Top screen of the Panel Factory

If a Panel of Generation 6 is connected, "6" is indicated here.



Note: With this model, the structure of Factory mode has been changed, and all items related to the Panel are gathered into PANEL FACTORY mode.

Note: On-screen displays in Factory mode are indicated in white characters on a green background for the PDP-506HD/436HD and subsequent models.

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■ Configuration of Panel Factory mode

| No. | Submode Name | Adjustable Range | Remarks |
|------|--------------------|--|-----------------------|
| INO. | Submode Items | Aujustable natige | nemarks |
| 1 | PANEL INFORMATION | | |
| 2 | PANEL WORKS | | |
| 3 | POWER DOWN | | |
| 4 | SHUT DOWN | | |
| 5 | PANEL-1 ADJ (+) | | |
| 5-1 | X-SUS B <=> | 120 to 136 | Equivalent to XSB |
| 5-2 | Y-SUS B <=> | 120 to 136 | Equivalent to YSB |
| 5-3 | Y-SUSTAIL T <=> | 120 to 136 | Equivalent to YTG |
| 5-4 | Y-SUSTAIL W <=> | 120 to 136 | Equivalent to YTW |
| 5-5 | XY-RST W <=> | 120 to 136 | Equivalent to RSW |
| 5-6 | VOL SUS <=> | 000 to 255 | Equivalent to VSU |
| 5-7 | VOL OFFSET <=> | 000 to 255 | Equivalent to VOF |
| 5-8 | VOL RST P <=> | 000 to 255 | Equivalent to VRP |
| 5-9 | SUS FREQ. <=> | MODE1 to MODE8 | Equivalent to SFR |
| 6 | PANEL-2 ADJ (+) | | |
| 6-1 | R-HIGH <=> | 000 to 511 | Equivalent to PRH |
| 6-2 | G-HIGH <=> | 000 to 511 | Equivalent to PGH |
| 6-3 | B-HIGH <=> | 000 to 511 | Equivalent to PBH |
| 6-4 | R-LOW <=> | 000 to 999 | Equivalent to PRL |
| 6-5 | G-LOW <=> | 000 to 999 | Equivalent to PGL |
| 6-6 | B-LOW <=> | 000 to 999 | Equivalent to PBL |
| 6-7 | ABL <=> | 000 to 255 | Equivalent to ABL |
| 7 | PANEL REVISE | | |
| 7-1 | R-LEVEL <=> | LV-0 to LV-7 | Equivalent to RRL |
| 7-2 | G-LEVEL <=> | LV-0 to LV-7 | Equivalent to RGL |
| 7-3 | B-LEVEL <=> | LV-0 to LV-7 | Equivalent to RBL |
| 8 | ETC (+) | | |
| 8-1 | BACKUP DATA <=> | NO OPRT<=>TRANSFER or ERR | Equivalent to BCP |
| 8-2 | DIGITAL EEPROM <=> | NO OPRT<=>DELETE/REPAIR | Equivalent to FAJ/UAJ |
| 8-3 | PD INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CPD |
| 8-4 | SD INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CSD |
| 8-5 | HR-MTR INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CHM |
| 8-6 | PM/B1-B5 <=> | NO OPRT <=>CLEAR | Equivalent to CPM |
| 8-7 | P-COUNT INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CPC |
| 9 | MASK SETUP (+) | | |
| 9-1 | MASK OFF | | Equivalent to MKS+S00 |
| 9-2 | SGL MASK 01 <=> | | Equivalent to MKS+S01 |
| 9-3 | SGL MASK 02 <=> | | Equivalent to MKS+S02 |
| | ••• | <pre><=>V48<=>V50<=>V60<=>P60<=>P70<=>V72<=>V75<=> (Select each sequence.)</pre> | ••• |
| 9-62 | CMB MASK 08 <=> | | Equivalent to MKC+S08 |
| 9-63 | CMB MASK 09 <=> | | Equivalent to MKC+S09 |

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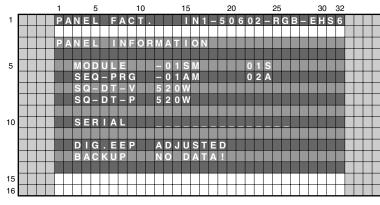
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■ Details on submodes related to the panel

The GUI display examples here are those displayed when the main unit is used with the 50-inch model.

1. PANEL INFORMATION



■ Key operation

<DOWN> : Shifting to PANEL WORKS <UP> : Shifting to MASK SETUP (+)

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

The version of the microcomputer of the panel, serial number of the main unit, adjustment values of the main unit, and backup status are displayed.

2. PANEL WORKS

С

- The data from the pulse meter for each block from PM-B1 to PM-B5 are indicated. The values stored in the EEPROM (3 bytes each) are each converted into a decimal number, and the higher-order 8 digits are displayed (that means that the lowest-order digit represents millions).
- TEMP1: Indicates the temperature of the panel. By your pressing the L or R key, the temperature value can be updated.

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3. POWER DOWN

■ Key operation

<DOWN> : Shifting to SHUTDOWN <UP> : Shifting to PANEL WORKS

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

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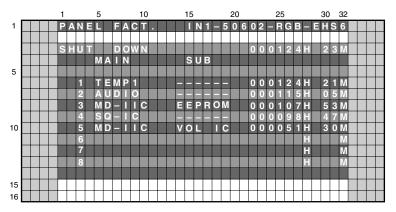
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• Basically, data acquired with the command QPD are displayed in the columns "1ST" and "2ND, with the values from the hour meter when the power-down occurred.

<Causes of power-down and corresponding OSD indications>

| Cause of power-down | OSD Indication | Cause of power-down | OSD Indication |
|---------------------|----------------|-------------------------|----------------|
| POWER SUPPLY Unit | P-PWR | ADDRESS Assy | ADRS |
| SCAN Assy | SCAN | X-DRIVE Assy | X-DRV |
| 5V power for SCAN | SCN5V | DCDC for X drive | X-DCDC |
| Not used | | X-SUS | X-SUS |
| DCDC for Y drive | Y-DCDC | Sequence drive stopped | SQ-NON |
| Y-SUS | Y-SUS | Specification inability | UNKNOW |

4. SHUT DOWN



■ Key operation

<DOWN> : Shifting to PANEL-2ADJ (+) <UP> : Shifting to POWER DOWN

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

• Basically, data acquired with the command QSD (for MDU-IIC, subcategory data are also displayed) are displayed with the values from the hour meter when the shutdown occurred.

<Causes of shutdown and corresponding OSD indications>

| Cause of shutdown (main) | OSD Indication |
|-------------------------------|----------------------------|
| SEQUENCE PROCESSOR | SQ-IC |
| MDU-IIC | MDU-IIC (with subcategory) |
| Abnormality in RST2 | RST2 |
| Panel having high temperature | TEMP1 |
| Short-circuited speaker | AUDIO |

| Cause of shutdown (sub) | OSD Indication | | |
|-------------------------|------------------------|--|--|
| EEPROM | EEPROM (IC3156) | | |
| BACKUP | BACKUP (IC3754) | | |
| DAC | DAC (IC3302 to IC3304) | | |
| Audio IC | VOL-IC (IC3158) | | |
| DVI | DVI | | |

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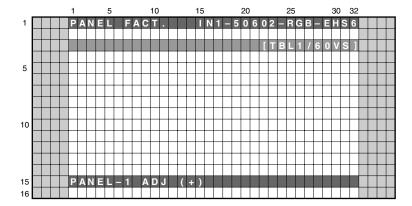
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5. PANEL-1 ADJ

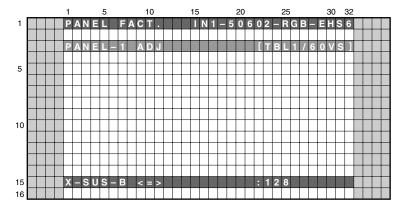
В



■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+) <UP> : Shifting to POWER DOWN <SET> : Shifting to the next nested layer

<SEL> : MASK ON/OFF



■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

<SEL> : MASK ON/OFF

<Drive-sequence indications and indications for the ABL/WB tables> (The OSD indications are displayed at the right part of the third line for submode PANEL-1 ADJ and subsequent submodes.)

| Type of WB/ABL Tables | | Type of Drive Sequences | | | | | | |
|-----------------------|--|-------------------------|----------------------|-------------------|--|------|--------------------------------|--|
| | | Standard Video/MASK ON | | Nonstandard Video | | PC | | |
| TBL1 | | 48VS | | | | 60PS | Not used for consumer products | |
| TBL2 | | 50VS | | 50VN | | 70PS | | |
| TBL3 | | 60VS | | 60VN | | | | |
| TBL4 | | 72VS | Only Mask indication | | | | | |
| | | 75VS | | 75VN | | | | |

<Lower-layer items of PANEL-1 ADJ>

| No. | Items | Adjustment/Setting Value | Remarks |
|-----|-----------------|--------------------------|-------------------|
| 1 | X-SUS B <=> | 120 to 136 | Equivalent to XSB |
| 2 | Y-SUS B <=> | 120 to 136 | Equivalent to YSB |
| 3 | Y-SUSTAIL T <=> | 120 to 136 | Equivalent to YTG |
| 4 | Y-SUSTAIL W <=> | 120 to 136 | Equivalent to YTW |
| 5 | XY-RST W <=> | 120 to 136 | Equivalent to RSW |
| 6 | VOL SUS <=> | 000 to 255 | Equivalent to VSU |
| 7 | VOL OFFSET <=> | 000 to 255 | Equivalent to VOF |
| 8 | VOL RST P <=> | 000 to 255 | Equivalent to VRP |
| 9 | SUS FREQ. <=> | <=>MODE1 to MODE8<=> | Equivalent to SFR |

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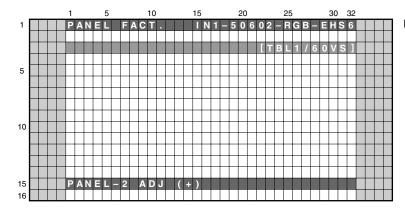
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6. PANEL-2 ADJ

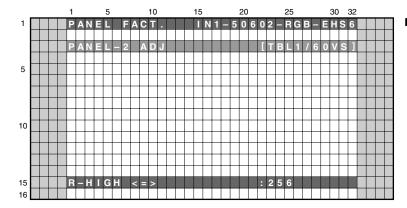


■ Key operation

<DOWN> : Shifting to PANEL REVISE <UP> : Shifting to PANEL-1 ADJ (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

<SEL> : MASK ON/OFF

<Lower-layer items of PANEL-2 ADJ>

| No. | Items | Adjustment/Setting Value | Remarks |
|-----|------------|--------------------------|-------------------|
| 1 | R-HIGH <=> | 000 to 511 | Equivalent to PRH |
| 2 | G-HIGH <=> | 000 to 511 | Equivalent to PGH |
| 3 | B-HIGH <=> | 000 to 511 | Equivalent to PBH |
| 4 | R-LOW <=> | 000 to 999 | Equivalent to PRL |
| 5 | G-LOW <=> | 000 to 999 | Equivalent to PGL |
| 6 | B-LOW <=> | 000 to 999 | Equivalent to PBL |
| 7 | ABL <=> | 000 to 255 | Equivalent to ABL |

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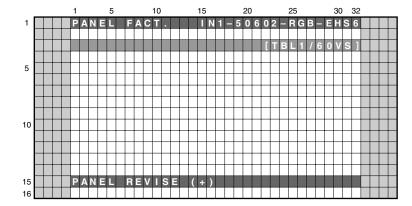
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7. PANEL REVISE

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■ Key operation

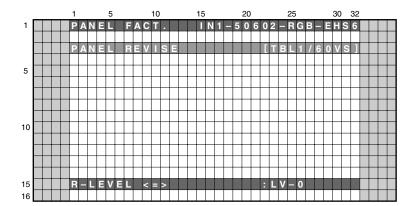
3

<DOWN> : Shifting to ETC.(+)

<UP> : Shifting to PANEL-2 ADJ (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

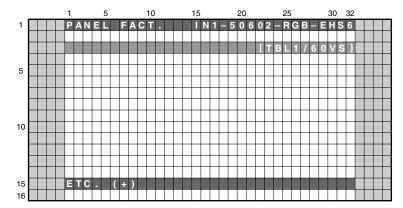
<Lower-layer items of PANEL REVISE>

| No. | Items | Adjustment/Setting Value | Remarks | | |
|-----|-------------|--------------------------|-------------------|--|--|
| 1 | R-LEVEL <=> | <=>LV-0 to LV-7<=> | Equivalent to RRL | | |
| 2 | G-LEVEL <=> | <=>LV-0 to LV-7<=> | Equivalent to RGL | | |
| 3 | B-LEVEL <=> | <=>LV-0 to LV-7<=> | Equivalent to RBL | | |

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8. ETC.

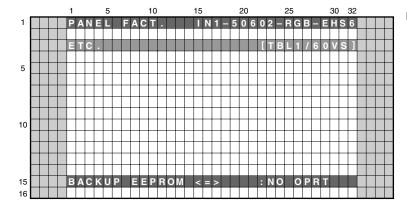


■ Key operation

<DOWN> : Shifting to MASK SETUP (+) <UP> : Shifting to PANEL REVISE (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

: Subtracting by one from the <LEFT>

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

<Lower-layer items of ETC.>

| No. | Items | Adjustment/Setting Value | Remarks |
|-----|--------------------|-------------------------------|---|
| 1 | BACKUP DATA <=> | <=>NO OPRT<=>TRANSFER<=> | "ERR" is indicated when no data are in the backup EEPROM. To activate the option to select TRANSFER, press the SET key about 5 seconds. (There is a situation resting more than 5 seconds.) |
| 2 | DIGITAL EEPROM <=> | <=>NO OPRT<=>REPAIR/DELETE<=> | "DELETE" is indicated when the main unit has been already adjusted. To activate the option to select REPAIR/DELETE, press the SET key about 5 seconds. (There is a situation resting more than 5 seconds.) |
| 3 | PD INFO. <=> | <=>NO OPRT<=>CLEAR<=> | |
| 4 | SD INFO. <=> | <=>NO OPRT<=>CLEAR<=> | To activate the option to select CLEAR, repeatedly |
| 5 | HR-MTR INFO. <=> | <=>NO OPRT<=>CLEAR<=> | press the SET key about 5 seconds. |
| 6 | PM/B1-B5 <=> | <=>NO OPRT<=>CLEAR<=> | (There is a situation resting more than 5 seconds.) |
| 7 | P-COUNT INFO. <=> | <=>NO OPRT<=>CLEAR<=> | |

- "NO OPRT" is selected when this submode is entered (to avoid accidental misoperation).
- When each item is set, the process starts then the unit shifts to the upper layer. (When NO OPRT is determined, the unit will shift to the upper layer without doing anything.)
- When data are set to be backed up, if the digital EEPROM has not been adjusted, do the operation of LED pattern No. 7.

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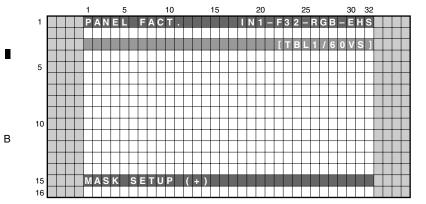
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9. MASK SETUP

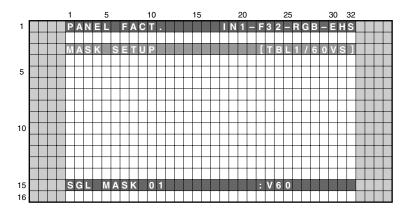


■ Key operation

<DOWN> : Shifting to PANEL INFORMATION

<UP> : Shifting to ETC. (+) <SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

<Lower-layer items of MASK SETUP>

| No. | Items | Adjustment/Setting Value | Remarks |
|-----|-----------------|--------------------------|-----------------------|
| 1 | MASK OFF | | Equivalent to MKS+S00 |
| 2 | SGL MASK 01 <=> | | Equivalent to MKS+S01 |
| 3 | SGL MASK 02 <=> | <=>48V<=>50V<=>60V<=> | Equivalent to MKS+S02 |
| 4 | ••• | 60P<=>70P<=>72V<=>75V<=> | ••• |
| 5 | CMB MASK 09 <=> | | Equivalent to MKC+S08 |
| 6 | CMB MASK 10 <=> | | Equivalent to MKC+S09 |

• With the keys <LEFT> and <RIGHT>, the Panel drive sequence in the MASK indication is changed in the following way: <=>48V<=>50V<=>60V<=>72V<=>75V<=>60P<=>70P<=>

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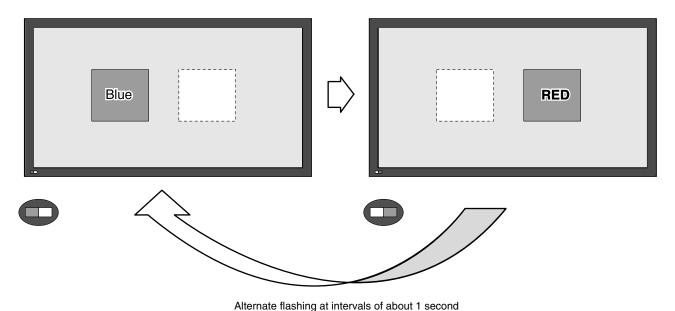
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7.1.4 OPERATION WHEN THE MEDIA RECEIVER IS NOT CONNECTED

As the connection conditions of the system cables (MDR cable, DVI cable) are usually detected, if no connection, such as cable disconnection, is detected, a warning indication (alternate flashing of the red and blue areas) is displayed on the mask screen, and the red and green LEDs flash alternately. Then after about 30 seconds, the power is automatically turned off.



Alternate hashing at intervals of about 1 second

To operate the panel without the Media Receiver, there are the following two ways:

1. Operation-without-the-Media-Receiver mode

Input the "SYS S00" RS232C command. The status of the LEDs changes to that in normal operation mode.

Note: Turning the AC switch to OFF then ON also maintains this mode. However, once the unit is connected with the Media Receiver using the System cable, this mode is automatically canceled.

2. DVI mode

Turn the unit on while DVI SG signals are being input with only the DVI connecter connected. After a warning is displayed for about 5 seconds, the unit is ready to display the screen of the input signal. (Blue LED lit)

Notes: • Although the output from XGA (43 inch) and WXGA (50 inch) can be input to the unit, this is not a mode open to general users. (With some signals, errors such as power-down may occur.)

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7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: To prevent a power-down from being generated, operation of only the digital-signal processing and audio circuits are enabled, and power is not supplied to the panel driving system (large-signal system).

Usages: 1. In a case where a check is required of signals' being correctly output to the driving systems during a repair, etc.

2. In a case where diagnosis is required for judging whether the power to the large-signal system or small-signal system has been down when a power-down occurred

Methods: 1. Short-circuit the points (see Fig. 4 below) on the face and on the reverse side of the HD DIGITAL Assy.

2. Issue the "DRV S00" RS-232C command. (Command for turning the function off: DRV S01)

Notes: • When the power to the large-signal system is off, as the PD signal is muted, power-downs other than PS_PD are not activated.

• As soon as the clips are removed while the power to the large-signal system is off, a power-down will occur. Be sure to turn the power off before removing the clips.

• While this function is activated with RS-232C commands, it is possible to issue "DRV S01" (for turning the function off) while the power is on. However, as it may damage the unit, turn the power off before issuing the "DRV S01" command.

 Although the "DRV S00/S01" RS-232C commands are valid during Standby mode, once the main power is turned off, the unit will return to "DRV S01."

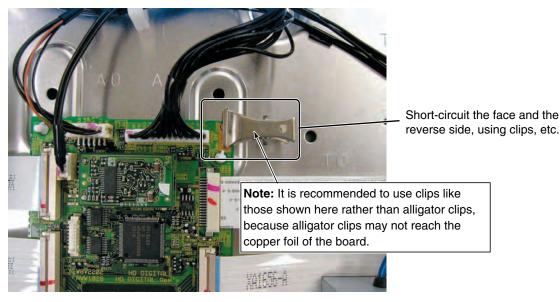


Fig. 4 Position of DRIVE OFF

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7.1.6 BACKUP WHEN THE MAIN UNIT IS ADJUSTED

Outline

Adjustment data set at the factory are stored in the EEPROM (IC****/4K) on the HD DIGITAL Assy. Those adjustment data are automatically backed up in the EEPROM (backup EEPROM: IC****) on the HD AUDIO Assy. Therefore, even if the HD DIGITAL Assy is replaced, the adjustment data can be restored by copying the backup data, which enables you to omit newly performing adjustments on the main unit.

Data to be backed up

- Voltage margin adjustment values
- Data on the hour meter
- Upper limit of power-adjustment value
- Data on the pulse meter
- Panel WB adjustment values
- Serial number
- Drive waveform adjustment values
- Data of the P-ON counter
- PD/SD histories

How to copy the backup data

1. When the HD DIGITAL Assy is replaced with that for service (normal servicing) (In a case where no data are on the DIG. EEP, and backup data have been adjusted)

Command: "BCP" (Effective during FAY) Factory Menu

> PANEL INFORMATION ▼ (down) ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT >> (right) BACKUP DATA: TRANSFER

[set] (Press and hold for 5 seconds.)

- After the HD DIGITAL Assv is replaced with that for service, check that "DIG. EEP: NO DATA!" is displayed on the Panel Information screen of the Factory Menu.
- If this command is not executed, the red LED lights, and the blue LED flashes, to warn you that copying of the backup adjustment data for the main unit failed.
- If both the HD DIGITAL Assy and HD AUDIO Assy are to be replaced, first replace the HD AUDIO Assy and set the unit to Standby mode. Then replace the HD DIGITAL Assy.

2. In a case where a HD DIGITAL Assy that was mounted on another unit is to be reused as a service part.

Command: "FAJ" (Effective during FAY)

Factory Menu: PANEL FACT => ETC => DIGITAL EEPROM: DELETE

PANEL INFORMATION ▼ (down) ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT ▼ (down)

• If the HD DIGITAL Assy of Unit 1 is mounted to be reused in Unit 2 to be repaired, and Unit 2 enters Standby mode, the adjustment data and histories stored in Unit 1 are erased, and those of Unit 2 are copied. Once overwritten, the original data will not be restored. After the Assy is replaced, be sure to enter Factory mode, using the remote control unit for servicing, and perform the procedures described herein. Or, before mounting an Assy to be reused as a service Assy, perform these procedures then mount it on the product to be repaired.

DIGITAL EEPROM: NO OPRT >> (right)

DIGITAL EEPROM: REPAIR

[set] (Press and hold for 5 seconds.)

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3. In a case where the HD DIGITAL Assy is replaced with one for servicing because of a defective EEPROM on the original Assy and manual adjustments are to be performed (In a case where no data are stored in the HD DIGITAL Assy or as backup, and the values that have been manually adjusted on Service Menu are to be applied as adjustment data for the main unit) Command: "UAJ" (Effective during FAY) Factory Menu PANEL INFORMATION ▼ (down) В ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT ▼ (down) DIGITAL EEPROM: NO OPRT >> (right) DIGITAL EEPROM: REPAIR [set] (Press and hold for 5 seconds.) • If the HD DIGITAL Assy with which adjustment data for the main unit have been copied is mounted, the above procedures are not necessary after manual adjustment. (The indication "DIGITAL EEPROM: REPAIR" will not be displayed.)

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■ Clearing data on various histories when the HD DIGITAL Assy is replaced

Other than adjustment data for the main unit, data to be backed up include the accumulated power-on time and a history of defective parts, which are data updated and stored in memory. Among those data, some are required to be cleared when the HD DIGITAL Assy is replaced for servicing, as shown below:

| | | Т | RS-232C | | |
|---------------------------------|---|---------------------------|---------------------------------------|----------------------|---------|
| Item | Backed-up data | Panel replacement | Replacement of the power-supply block | Others | command |
| Hour meter | Accumulated display | To be cleared | Not to be cleared | Not to be cleared | СНМ |
| SD history | Point where an SD occurred and data on the hour meter | To be cleared | Not to be cleared | Not to be cleared | CSD |
| PD history | Point where a PD occurred and data on the hour meter | To be cleared | Not to be cleared | Not to be cleared | CPD |
| Pulse meter | Accumulated number of pulses of the Panel (5 blocks) | To be cleared (essential) | Not to be cleared | Not to be cleared | СРМ |
| Accumulated number of power-ons | Accumulated number of RELAY_ONs | Not to be cleared | To be cleared (essential) | Not to be cleared | CPC |

Notes:

1: With the PDP-506P/436P and subsequent models, because various compensation functions use pulse-meter data for calculating compensation values, if related Assys are replaced, data on various histories must be cleared.

2: To clear data using RS-232C commands, after entering Factory mode (by sending FAY or PFY), issue a corresponding command. Otherwise, the command will not be executed.

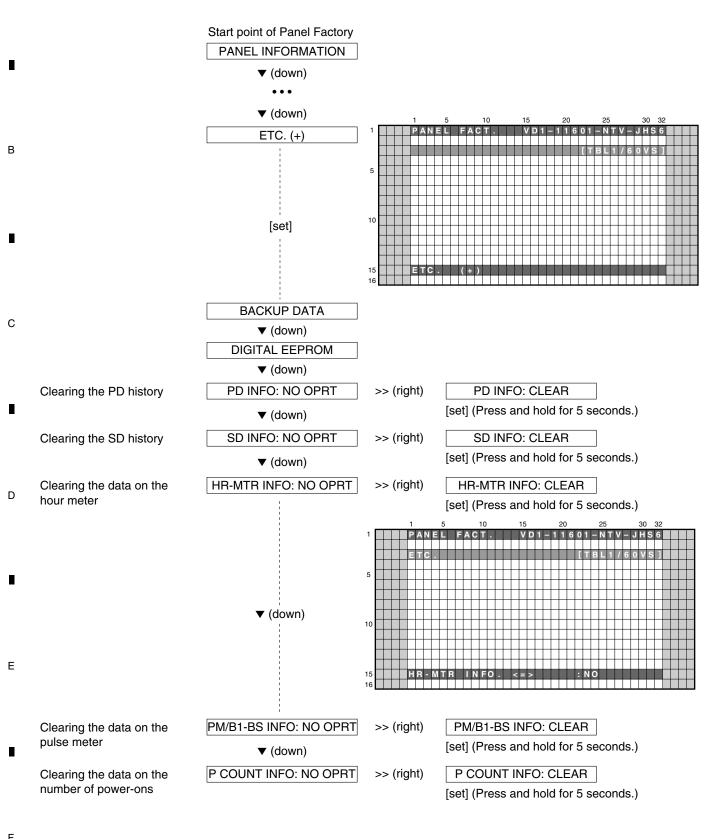
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■ How to clear the history for each item on the Factory Menu



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Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

1 Rear Case (506)

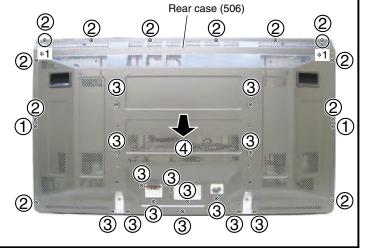
- (1) Remove the two screws.
- (2) Remove the tweleve screws.
- Remove the fourteen screws.

Note *1:

When reassembling, first secure the screws for these holes to position the rear case (506) correctly.

The hole of a left side, the screw tighten the hole of the right side next first.

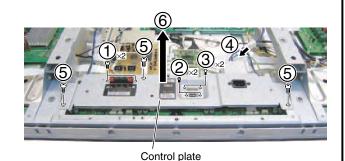
(4) Remove the rear case (506).

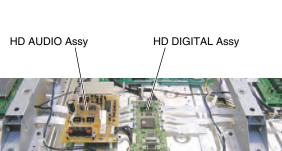




2 Control Plate Section

- 1 Remove the two screws.
- (2) Remove the two screws.
- $\widehat{\mathbf{3}}$ Remove the two hexagon head screws.
- (4) Disconnect the connector.
- (5) Remove the three screws.
- (6) Remove the control plate.







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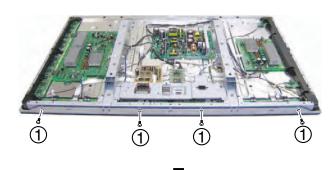
3 Front Case Assy (506PE)

(1) Remove the four screw rivets.

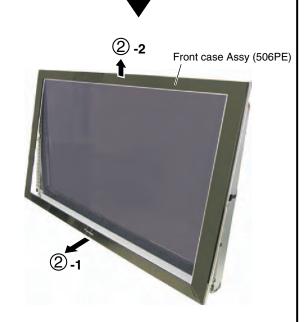
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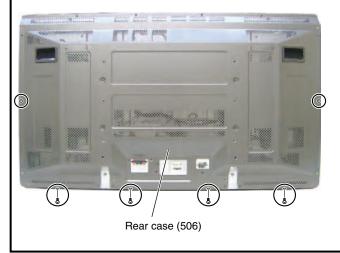
2 Remove the front case Assy (506PE).



When only the front case assy (506PE) is to be removed

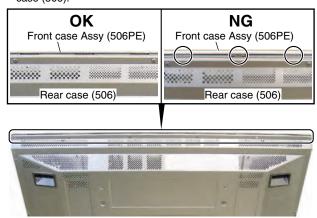
The front case assy (506PE) can be removed without removing the rear case (506) beforehand.

Remove the two screws and four screw rivets shown below:



Note when the front case assy (506PE) is to be reattached

- ① Hook the upper part of the Front Case Assy (506PE) on the upper part of the Front Panel, leaving a fist-sized gap between the bottom and the lower part of the Front Case Assy.
- ② Push the couplers of the Front Case Assy (506PE) into the rear case (506).
- 3 Make sure that all the couplers have been pushed into the rear case (506).





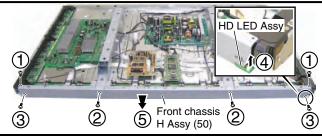
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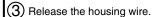
- 1 Remove the two screws.
- (2) Remove the two screws.
- (3) Remove the two screws.
- (4) Disconnect the connector.
- (5) Remove the front chassis H Assy (50).



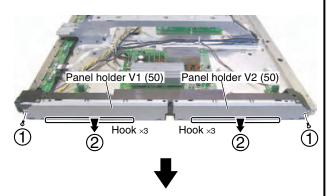


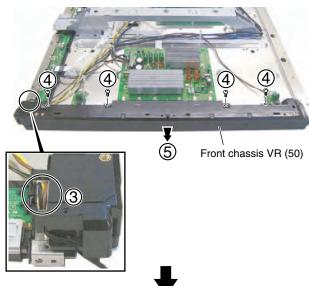
5 SUS CLAMP 1 and 2 Assys

- 1 Remove the two screws.
- Remove the panel holder V1 (50) and V2 (50)s. (Unhook the six hooks.)



- A Remove the four screws.
- (5) Remove the front chassis VR (50).





- (6) Remove the two screws.
- (7) Remove the two screws.
- ig(8 ig) Unhook the two PCB spacers.
- (9) Remove the SUS CLAMP 1 and 2 Assys.



SUS CLAMP 2 Assy

SUS CLAMP 1 Assy



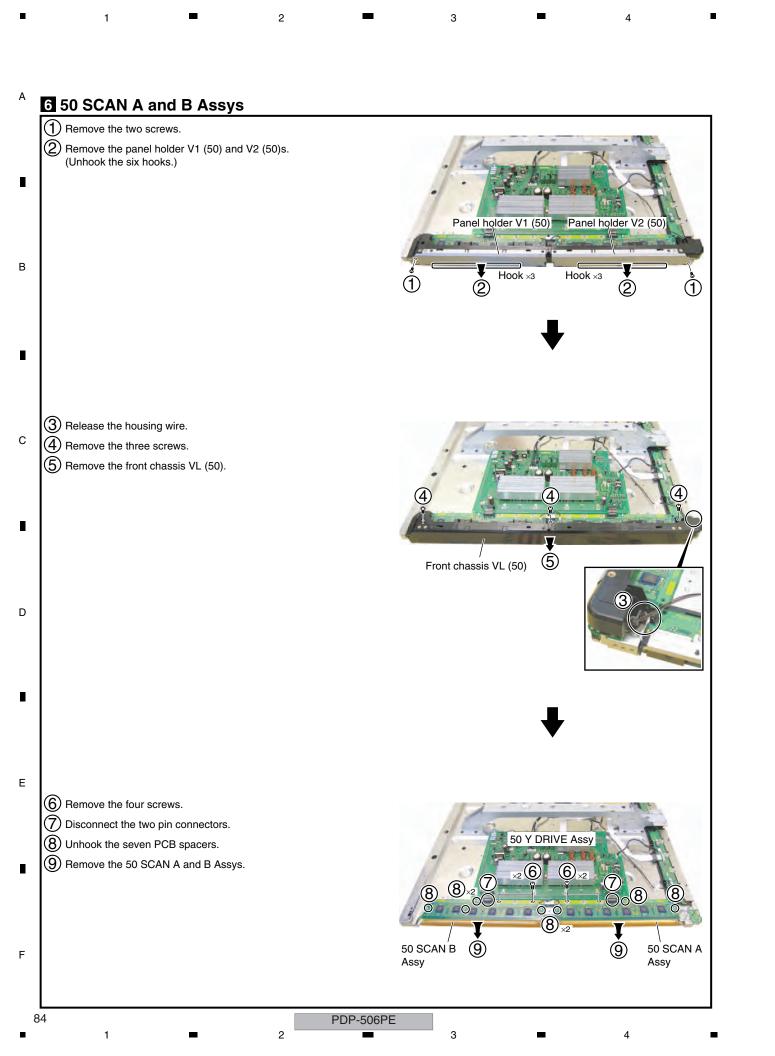
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7.2 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

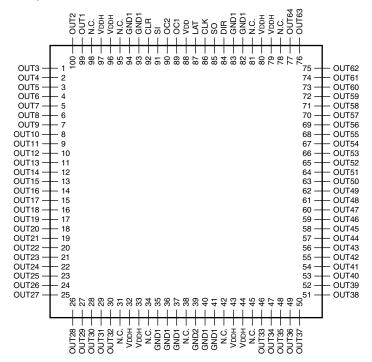
List of IC

AN16025A, TC7SH08FUS1, TC74VHC00FTS1, AXF1140, AXF1142, TC74VHC08FTS1, AXF1141, M62334FP, TC74VHC123AFTS1, PST3610UR, PEG122C, NJW1183L

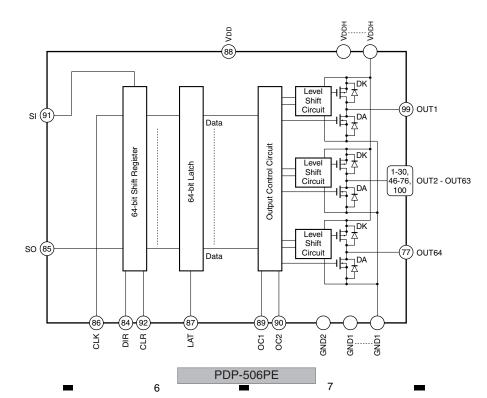
■ AN16025A (50 SCAN A ASSY : IC2701 - IC2706) (50 SCAN B ASSY : IC2801 - IC2806)

• Plasma Display Panel IC

Pin Arrangement (Top view)



Block Diagram



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• Pin Function

| | No. | Pin Name | 1/0 | Pin Function | | | |
|---------|----------|---------------|---|--|-----------|---------|------------|
| Γ | 1 - 30 | OUT3 - OUT32 | 0 | High-voltage push-pull output | | | |
| | 31 | N.C. | _ | Not connected | | | |
| | 32 - 33 | VDDH | _ | High-voltage circuit supply | | | |
| F | 34 | N.C. | _ | Not connected | | | |
| F | 35 - 37 | GND1 | _ | Ground | | | |
| | 38 | N.C. | _ | Not connected | | | |
| | 39 | GND2 | _ | Ground | | | |
| | 40 - 41 | GND1 | _ | Ground | | | |
| Γ | 42 | N.C. | _ | Not connected | | | |
| F | 43 - 44 | VDDH | _ | High-voltage circuit supply | | | |
| Γ | 45 | N.C. | _ | Not connected | | | |
| F | 46 - 77 | OUT33 - OUT64 | 0 | High-voltage push-pull output | | | |
| F | 78 | N.C. | _ | Not connected | | | |
| F | 79 - 80 | VDDH | _ | High-voltage circuit supply | | | |
| F | 81 | N.C. | _ | Not connected | | | |
| Γ | 82 - 83 | GND1 | _ | Ground | | | |
| | 84 | DIR | I | Setup of shift register shift direction L = Shift into reverse (SO \rightarrow SI) H = Shift forward (SI \rightarrow | SO) | | |
| r | 85 | SO | I/O | Serial data input / output | | | |
| r | 86 | CLK | L = Shift into reverse (SO → SI) H = Shift forward (SI → SO) Serial data input / output Serial clock input Fetch SI or SO data to shift register by CLK rise edge | | | | je |
| | 87 | LAT | I | I/O Serial data input / output I Serial clock input Fetch SI or SO data to shift register by CLK rise edge | | | |
| Γ | 88 | VDD | _ | Logic supply | | | |
| Γ | | | | | OC1 | OC2 | OUT |
| 1 | 89 | OC1 | I | | L | L | ALL Hi-Z |
| L | | | | Output control Control output according to the right | 늗 | Н | DATA |
| 1 | | | | truth value table | 뉴 | L | ALL L |
| | 90 | OC2 | I | | ┝╫ | Н | ALL H |
| F | | | | | L'' | 11 | ALLII |
| ╁ | 91 | SI | I/O | Serial data input / output | | | |
| F | 92 | CLR | I | All output reset CLR pin : L → Normal operation CLR p | oin : H - | → All o | utput High |
| F | 93 - 94 | GND1 | _ | Ground | | | |
| \perp | 95 | N.C. | _ | Not connected | | | |
| | 96 - 97 | VDDH | _ | High-voltage circuit supply | | | |
| | 98 | N.C. | _ | Not connected | | | |
| | 99 - 100 | OUT1 - OUT2 | 0 | High-voltage push-pull output | | | |

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■ TC7SH08FUS1 (50 SCAN B ASSY : IC2807)

• 2-input AND Gate

5

• Pin Arrangement (Top view) / Block Diagram

IN B 1 5 Vcc IN A 2 4 OUT Y

• Truth Table

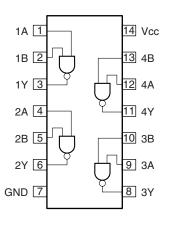
| Α | В | Υ |
|---|---|---|
| L | L | L |
| L | Н | L |
| Н | L | L |
| Н | Н | Н |

■ TC74VHC00FTS1 (50 X DRIVE ASSY : IC1002)

• Quad 2-Input NAND Gate

5

Block Diagram



• Truth Table

| Α | В | Υ |
|---|---|---|
| L | L | Н |
| L | Н | Н |
| Н | L | Н |
| Н | Н | L |

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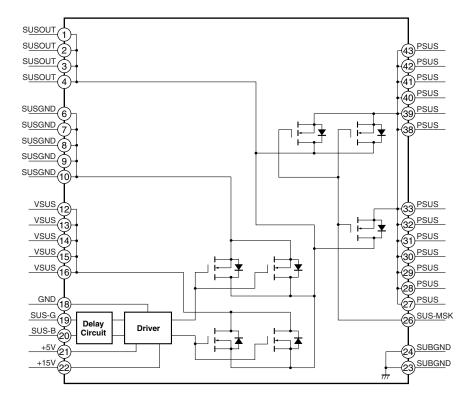
■ AXF1140 (50 X DRIVE ASSY : IC1202)

• X Mask Module

Block Diagram

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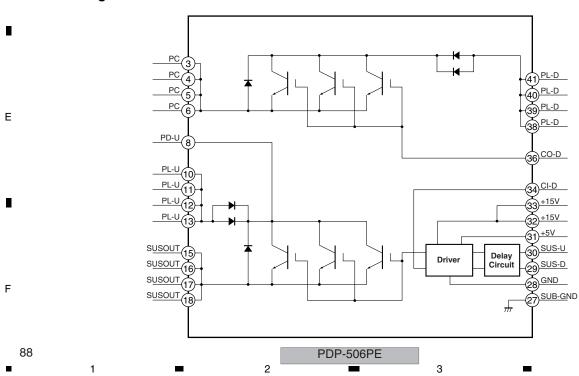


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■ AXF1142 (50 X DRIVE ASSY : IC1101) (50 Y DRIVE ASSY : IC2101)

• DK Module

Block Diagram

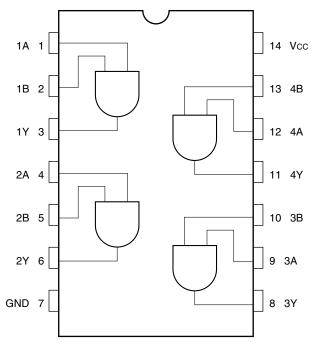


■ TC74VHC08FTS1 (50 Y DRIVE ASSY : IC2003, IC2005)

• Quad 2-input AND Gate

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• Pin Arrangement (Top view) / Block Diagram



• Truth Table

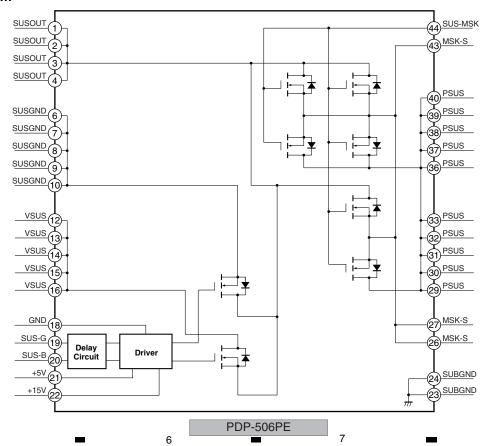
| Α | В | Y |
|---|---|---|
| L | L | Ш |
| L | Н | L |
| Н | L | L |
| Н | Н | Н |

■ AXF1141 (50 Y DRIVE ASSY : IC2252, IC2253)

• Y Mask Module

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Block Diagram



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■ M62334FP (HD DIGITAL ASSY : IC3157)

• 8-bit 4ch I2C Bus D-A Converter with Buffer Amplifier

• Pin Arrangement (Top view)

AO1 1 8 VCC AO2 2 7 SCL AO3 3 6 SDA AO4 4 5 GND

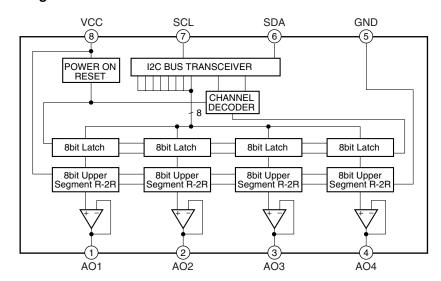
Pin Function

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| No. | Pin Name | Pin Function |
|-----|----------|--|
| 1 | AO1 | |
| 2 | AO2 | O hit was allution D. A sourcetter suction t |
| 3 | AO3 | 8-bit resolution D-A converter output |
| 4 | AO4 | |
| 5 | GND | Ground |
| 6 | SDA | Serial data input |
| 7 | SCL | Serial clock input |
| 8 | vcc | Power supply |

Block Diagram

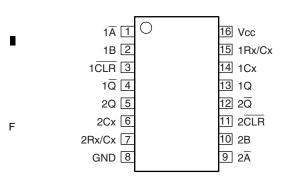
В



■ TC74VHC123AFTS1 (HD DIGITAL ASSY : IC3160)

• Dual Monostable Multivibrator/AFN/AFT Retriggerble

Pin Arrangement (Top view)



• Truth Table

| | Inputs | i | Out | puts | Note | | |
|----|--------|-----|------------------|------|---------------|--|--|
| Ā | В | CLR | $Q \overline{Q}$ | | Note | | |
| 7_ | Н | Н | Л Т (| | Output enable | | |
| Х | L | Н | L | Н | Inhibit | | |
| Н | Х | Н | L | Н | Inhibit | | |
| L | L | Н | 7 | T | Output enable | | |
| L | Η | | J | П | Output enable | | |
| Х | Χ | Ĺ | Ĺ | Н | Reset | | |

X: Don't care

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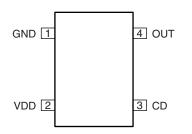
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PDP-506PE

■ PST3610UR (HD DIGITAL ASSY : IC3304) • Reset IC

• Pin Arrangement (Top view)

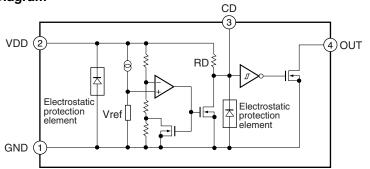
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• Pin Function

| No. | Pin Name | Pin Function |
|-----|----------|----------------------------------|
| 1 | GND | Ground |
| 2 | VDD | Power supply / Voltage detection |
| 3 | CD | Capacitor connect pin for delay |
| 4 | OUT | Reset signal output |

• Block Diagram



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В

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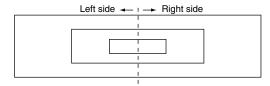
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PDP-506PE

■ PEG122C (HD DIGITAL ASSY : IC3401)
• LSI for PDP video processing (SEQUENCE PROCESSOR)

• Pin Arrangement (Top view)



TXOUTP023 TXCLKOUTP02 TXOUTP022

TXOUTP021

TXOUTP020

ΑE

• Left side (Top view)

| • | en side | (TOP VI | ew) | | | | | | | | | | |
|----|-------------|-------------|---------|---------|---------|---------|-------|--------|-------|-------|--------|-------|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Α | BAI5 | GAI1 | GAI4 | GAI9 | RAI4 | RAI9 | BBI0 | BBI6 | GBI1 | GBI5 | RBI1 | RBI7 | TRNSEND1 |
| В | BAI4 | GAI0 | GND33 | GAI8 | RAI3 | RAI8 | HDI | BBI5 | GBI0 | GDN33 | RBI0 | RBI6 | TRNSEND0 |
| С | BAI3 | BAI9 | VDD33 | GAI7 | RAI2 | RAI7 | VDI | BBI4 | BBI9 | VDD33 | GBI9 | RBI5 | VDD33 |
| D | BAI2 | BAI8 | GAI3 | GAI6 | RAI1 | RAI6 | DEI | BBI3 | BBI8 | GBI4 | GBI8 | RBI4 | RBI9 |
| Ε | BAI1 | BAI7 | GAI2 | GAI5 | RAI0 | RAI5 | DCLKI | BBI2 | BBI7 | GBI3 | GBI7 | RBI3 | RBI8 |
| F | BAI0 | BAI6 | PEAK | APLDT | THEATER | GND12 | VDD12 | BBI1 | VDD12 | GBI2 | GBI6 | RBI2 | VDD12 |
| G | XSCAN20 | XSCAN19 | XSCAN18 | XSCAN17 | XSCAN16 | VDD12 | | | | | • | | |
| н | XSCAN15 | XSCAN14 | XSCAN13 | XSCAN12 | XSCAN11 | VDDTC12 | | | | | | | |
| J | XSCAN10 | GND33 | VDD33 | XSCAN9 | GNDTC12 | VDD12 | | | | | | | |
| Κ | XSCAN8 | XSCAN7 | XSCAN6 | XSCAN5 | XSCAN4 | VDDTC12 | | | | | | | |
| L | XSCAN3 | XSCAN2 | XSCAN1 | XSCAN0 | GND12 | VDD12 | | | | | GND12 | GND12 | GND12 |
| М | XSUS10 | XSUS9 | XSUS8 | XSUS7 | GNDTC12 | VDD12 | | | | | GND12 | GND12 | GND12 |
| N | XSUS6 | GND33 | VDD33 | XSUS5 | GND12 | VDD12 | | | | | GND12 | GND12 | GND12 |
| Р | XSUS4 | XSUS3 | XSUS2 | XSUS1 | XSUS0 | VDDTC12 | | | | | GND12 | GND12 | GND12 |
| R | ADRS0 | ADRS1 | ADRS2 | ADRS3 | GNDTC12 | VDD12 | | | | | GND12 | GND12 | GND12 |
| Т | TEST_I0 | GND33 | VDD33 | TEST_I1 | TEST_I2 | TEST_R | | | | | GND12 | GND12 | GND12 |
| U | TXOUTM063 | TXOUTP063 | GNDLA | VDDLA | GNDLA | VDDL12 | | | | | | | |
| ٧ | TXCLKOUTM06 | TXCLKOUTP06 | GNDLA | VDDLA | GNDLA | VDDLA | | | | | | | |
| W | TXOUTM062 | TXOUTP062 | GNDLA | VDDLA | GNDLA | VDDLA | | | | | | | |
| Υ | TXOUTM061 | TXOUTP061 | GNDLA | VDDLA | GNDLA | VDDL12 | | | | | | | |
| AA | TXOUTM060 | TXOUTP060 | GNDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA |
| AB | TXOUTM073 | TXOUTP073 | GNDLA | VDDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | VDDBG | REFIN |
| AC | TXCLKOUTM07 | TXCLKOUTP07 | GNDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA |
| AD | TXOUTM072 | TXOUTP072 | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA |
| | | | | | | | | | | | | 1 | 1 |

TXOUTP031 TXOUTP030

TXOUTM033 TXCLKOUTM03 TXOUTM032 TXOUTM031 TXOUTM030 TXOUTM023 TXCLKOUTM02 TXOUTM022

• Right side (Top view)

TXOUTM070 TXOUTP070

TXOUTP071

GNDLA

TXOUTM071

| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|----|-----------|-------------|-----------|-----------|-----------|-----------|-------------|-----------|------------|-----------|---------|----------------|---------------|
| Α | CLKD | VSSPA | EXDI011 | EXDI09 | EXA4 | EXA10 | EXA2 | EXA16 | EXA20 | CSCS_N1 | CSCS_N2 | CSIOSCK1 | CSIORXD |
| В | CSRD_N | VCCPA | EXDI04 | GND33 | EXA3 | EXA9 | EXA1 | EXA15 | EXA19 | CSCS_N0 | GND33 | TCRAM_MONITOR0 | TCRAM_MONITOR |
| С | CLKS | CLK_MONI | EXDI012 | VDD33 | EXDI00 | EXA8 | CSWR_N | EXA14 | EXA18 | UARTRXD | VDD33 | TCRAM_MONITOR2 | CSIORQ |
| D | VSSPB | EXDI014 | EXDI05 | EXDI02 | EXDI08 | EXA7 | EXA0 | EXA13 | EXA17 | UARTTXD | CS10TXD | RESETX | SDIJTAG |
| Е | VCCPB | EXDI07 | EXDI013 | EXDI010 | EXDI01 | EXA6 | EXA11 | EXA12 | CSEXWAIT_N | SDITRST_N | SDITCK | SDIDBI_N | SDITMS |
| F | LPFMONI | EXDI015 | EXDI06 | EXDI03 | VDD12 | EXA5 | VDD12 | GND12 | SDITDO | SDITDI | GP1000 | GPI001 | GPI002 |
| G | | | | | | | | VDD12 | GPI003 | GPI004 | GPI005 | GPI006 | GPI007 |
| Н | | | | | | | | VDDTC12 | YSCAN20 | YSCAN19 | YSCAN18 | YSCAN17 | YSCAN16 |
| J | | | | | | | | VDD12 | GNDTC12 | YSCAN15 | VDD33 | GND33 | YSCAN14 |
| Κ | | | | | | | | VDDTC12 | YSCAN13 | YSCAN12 | YSCAN11 | YSCAN10 | YSCAN9 |
| L | GND12 | GND12 | GND12 |] | | | | VDD12 | GND12 | YSCAN8 | YSCAN7 | YSCAN6 | YSCAN5 |
| М | GND12 | GND12 | GND12 | 1 | | | | VDD12 | GNDTC12 | YSCAN4 | YSCAN3 | YSCAN2 | YSCAN1 |
| N | GND12 | GND12 | GND12 | 1 | | | | VDD12 | GND12 | YSCAN0 | VDD33 | GND33 | VSUS10 |
| Р | GND12 | GND12 | GND12 | 1 | | | | VDDTC12 | YSUS9 | YSUS8 | YSUS7 | YSUS6 | VSUS5 |
| R | GND12 | GND12 | GND12 | 1 | | | | VDD12 | GNDTC12 | YSUS4 | YSUS3 | YSUS2 | VSUS1 |
| Т | GND12 | GND12 | GND12 | 1 | | | | YSUS0 | RSV1 | RSV0 | VDD33 | GND33 | AFE_PS_N |
| U | | • | | | | | | VDDL12 | GNDLA | VDDLA | GNDLA | TXOUTP050 | TXOUTM050 |
| ٧ | | | | | | | | VDDLA | GNDLA | VDDLA | GNDLA | TXOUTP051 | TXOUTM051 |
| W | | | | | | | | VDDLA | GNDLA | VDDLA | GNDLA | TXOUTP052 | TXOUTM052 |
| Υ | | | | | | | | VDDL12 | GNDLA | VDDLA | GNDLA | TXCLKOUTP05 | TXCLKOUTM |
| ۱A | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA | VDDLA | VDDLA | GNDLA | TXOUTP053 | TXOUTM053 |
| ۱В | VREF12 | GNDBG | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | VDDLA | GNDLA | TXOUTP040 | TXOUTM040 |
| ٩C | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | GNDLA | TXOUTP041 | TXOUTM041 |
| ۱D | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | TXOUTP042 | TXOUTM042 |
| ٩E | TXOUTP013 | TXCLKOUTP01 | TXOUTP012 | TXOUTP011 | TXOUTP010 | TXOUTP003 | TXCLKOUTP00 | TXOUTP002 | TXOUTP001 | TXOUTP000 | GNDLA | TXCLKOUTP04 | TXCLKOUTMO |
| ٩F | TXOUTM013 | TXCLKOUTM01 | TXOUTM012 | TXOUTM011 | TXOUTM010 | TXOUTM003 | TXCLKOUTM00 | TXOUTM002 | TXOUTM001 | TXOUTM000 | GNDLA | TXOUTP043 | TXOUTM043 |

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TXOUTP033 TXCLKOUTP03 TXOUTP032

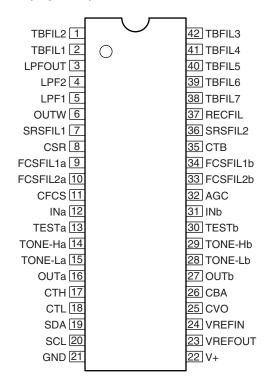
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■ NJW1183L (HD AUDIO ASSY: IC3753)

• FOCUS & SRS IC

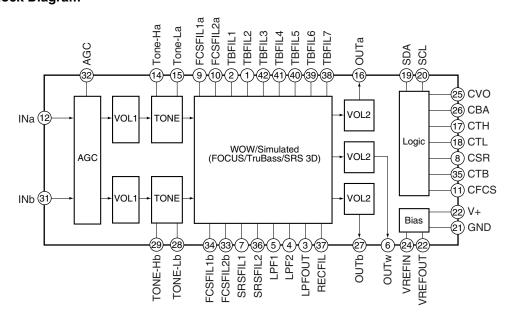
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Pin Arrangement (Top view)



Block Diagram

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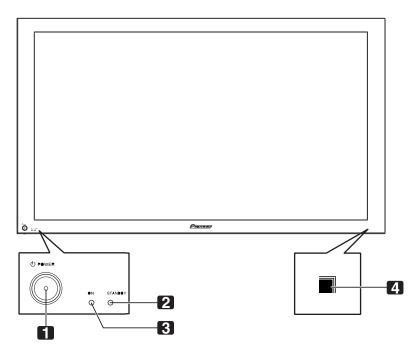
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8. PANEL FACILITIES

Front view



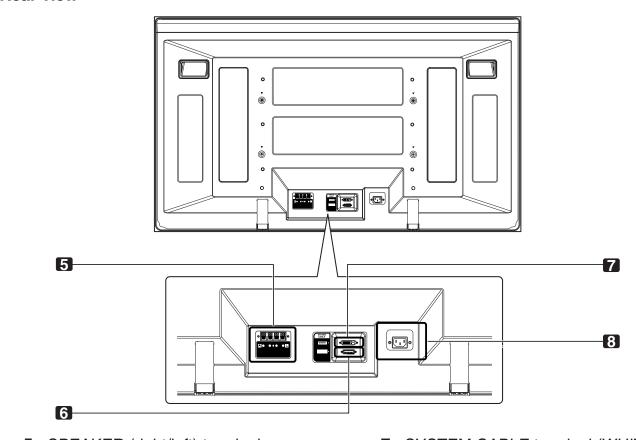
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- 1 POWER button
- 2 STANDBY indicator

- 3 POWER ON indicator
- 4 Remote control sensor

Rear view

С



- 5 SPEAKER (right/left) terminals
- 6 SYSTEM CABLE terminal (BLACK)
- **7** SYSTEM CABLE terminal (WHITE)
- 8 AC IN terminal

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■ Jigs list

В

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| Jig No. | Jig Name | Remarks |
|---------|------------------------------|-------------------------------|
| GGF1475 | Special Communication Device | See to "6.2 RS-232C COMMAND". |

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PDP-506PE

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Service Manual



ORDER NO. ARP3275

MEDIA RECEIVER

PDP-R06XE PDP-R06FE

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Model | Туре | Power Requirement | Remarks |
|-----------|---------|-------------------|---------|
| PDP-R06XE | WYVIXK5 | AC220-240V | |
| PDP-R06FE | WYVI5 | AC220-240V | |
| PDP-R06FE | WYVIXK5 | AC220-240V | |

This service manual should be used together with the following manual(s).

| Model No. | Order No. | Remarks |
|----------------------|-----------|---|
| PDP-R06XE, PDP-R06FE | ARP3276 | SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM |



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely you, should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

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This product contains and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety CodeSection 25249.6 - Proposition 65

This product contains mercury. Disposal of this material may be regulated due to evironmental considerations. For disposal or recycling information, please contact your local authoritier of the Electronice Industries Alliance: www.eiae.org.

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

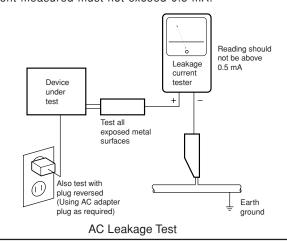
(FOR USA MODEL ONLY) -

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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PDP-R06XE

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

1 Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

PDP-R06XE

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1. SPECIFICATIONS

● PDP-R06XE model

| | Item | | Media Receiver, Model: PDP-R06XE |
|------------------------------|---------------------|----------|--|
| Colour System | | Analogue | PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60 |
| TV Function Receiving System | | Digital | PAL/SECAM PAL/SECAM |
| TV Function | Receiving System | | B/G, D/K, I, L/L' |
| (Analogue) | Tuner | VHF/UHF | E2-E69ch, F2-F10ch, I21-I69ch, IR A-IR Jch |
| | | CATV | Hyper-band, S1-S41ch |
| | Auto Channel Preset | | 99 ch, Auto Preset, Auto Label, Auto Sort |
| | STEREO | | NICAM/A2 |
| TV Function | Receiving System | | DVB-T (2K/8K COFDM) |
| (Digital) | Tuner VHF/UHF | | VHF Band III (170 to 230 MHz) and UHF Band IV, V (470 to 862 MHz) |
| | Auto Channel Preset | | 999 ch, Auto Preset, Auto Label, Auto Sort |
| | STEREO | | MPEG layer I/II, Dolby Digital |
| Terminals | Rear | INPUT1 | SCART (AV in, RGB in, TV out) |
| | | INPUT2 | SCART (AV in/out, S-VIDEO in, AV link *1) Component Video |
| | | INPUT3 | SCART (AV in/out, S-VIDEO in, RGB in, AV link *1), HDMI in *2 |
| | | INPUT4 | HDMI in *2 |
| | | Antenna | 75 Ω Din Type for VHF/UHF in (Analogue) |
| | | | 75 Ω Din Type for VHF/UHF in (Digital) |
| | | | 75 Ω Din Type for VHF/UHF out (Digital) |
| | Front | INPUT5 | S-VIDEO, AV in (Audio input is shared with PC INPUT.) |
| | | PC | Analog RGB in |
| | | PC CARD | PCMCIA Type II |
| AUDIO OUTPI | UT Terminal | (Rear) | AUDIO out (Fixed) |
| SUB WOOFER | R OUTPUT Terminal | (Rear) | Variable |
| PHONES OUT | FPUT Terminal | (Front) | 16–32 Ω recommended |
| DIGITAL OUT | Terminal | | Digital audio output (Optical) |
| COMMON INT | ERFACE | (Rear) | CA Module |
| Power Require | ement | | 220-240 V AC , 50/60 Hz, 25 W (0.7 W Standby: Aerial Power Off) |
| Dimensions | | | 420 (W) x 90 (H) x 299 (D) mm |
| Weight | | | 4.3 kg |

^{*1:} Switchable

• Design and specifications are subject to change without notice.

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^{*2:} This conforms to HDMI1.1 and HDCP1.1.

HDMI (High Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable.

HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

● PDP-R06FE model

| | Item | | Media Receiver, Model: PDP-R06FE | | |
|-------------------|---------------------|---------|---|--|--|
| Colour System | | | PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60 | | |
| TV Function | Receiving System | | B/G, D/K, I, L/L' | | |
| | Tuner | VHF/UHF | E2-E69ch, F2-F10ch, I21-I69ch, IR A-IR Jch | | |
| | | CATV | Hyper-band, S1–S41ch | | |
| | Auto Channel Preset | | 99 ch, Auto Preset, Auto Label, Auto Sort | | |
| | STEREO | | NICAM/A2 | | |
| Terminals | Rear | INPUT1 | SCART (AV in, RGB in, TV out) | | |
| | | INPUT2 | SCART (AV in/out, S-VIDEO in, AV link *1) Component Video | | |
| | | INPUT3 | SCART (AV in/out, S-VIDEO in, RGB in, AV link *1), HDMI in *2 | | |
| | | Antenna | 75 Ω Din Type for VHF/UHF in | | |
| | Front INPUT4 | | S-VIDEO, AV in | | |
| AUDIO OUTF | PUT Terminal | (Rear) | AUDIO out (FIX) | | |
| Power Requirement | | | 220–240 V AC , 50/60 Hz, 16 W (0.4 W Standby) | | |
| Dimensions | | | 420 (W) x 90 (H) x 299 (D) mm | | |
| Weight | | | 3.5 kg | | |

*1: Switchable

*2: This conforms to HDMI1.1 and HDCP1.1.

HDMI (High Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable. HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

Design and specifications are subject to change without notice.

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- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC
- The names of companies or institutions are trademarks or registered trademarks of the respective companies or institutions.

Dry Cell Battery (R6P, AA)

(For UK and Eire)

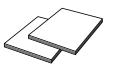
Only the power cord that is appropriate in your country or region is supplied.

Power cord (2 m)



System cable (3 m) (ADF1027)

Remote control unit (PDP-R06XE : AXD1509) (PDP-R06FE : AXD1491)



Two operating instructions

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PDP-R06XE

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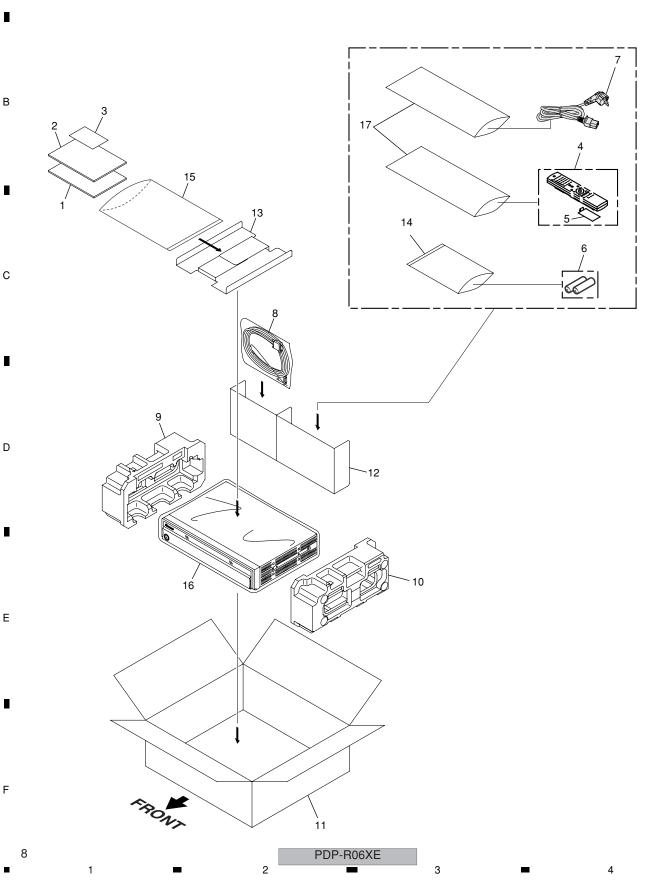
2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING SECTION

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(1) PACKING SECTION PARTS LIST

| Mark No. | <u>Description</u> | Part No. |
|------------|----------------------------|------------------------|
| 1 | Operating Instructions | See Contrast table (2) |
| | (Italian, Dutch, Spanish) | |
| 2 | Operating Instructions | See Contrast table (2) |
| | (English, French, German) | |
| 3 | Caution Card (10L) | ARM1276 |
| 4 | Remote Control Unit | See Contrast table (2) |
| 5 | Battery Cover | See Contrast table (2) |
| NSP 6 | Dry Cell Battery (R6P, AA) | See Contrast table (2) |
| <u>↑</u> 7 | Power Cord | ADG1214 |
| 8 | System Cable (3m) | ADF1027 |
| 9 | Pad L | See Contrast table (2) |
| 10 | Pad R | See Contrast table (2) |
| 11 | Carton | See Contrast table (2) |
| 12 | Accessory Carton | See Contrast table (2) |
| 13 | Manual Case | See Contrast table (2) |
| 14 | Polyethylene Bag | AHG1337 |
| NSP 15 | Catalogue Bag | AHG1340 |
| 16 | Laminate Sheet | AHG1350 |
| 17 | Air Cap Bag | AHG1351 |
| | | |

(2) CONTRAST TABLE

PDP-R06XE/WYVIXK5, PDP-R06FE/WYVI5 and WYVIXK5 are constructed the same except for the following:

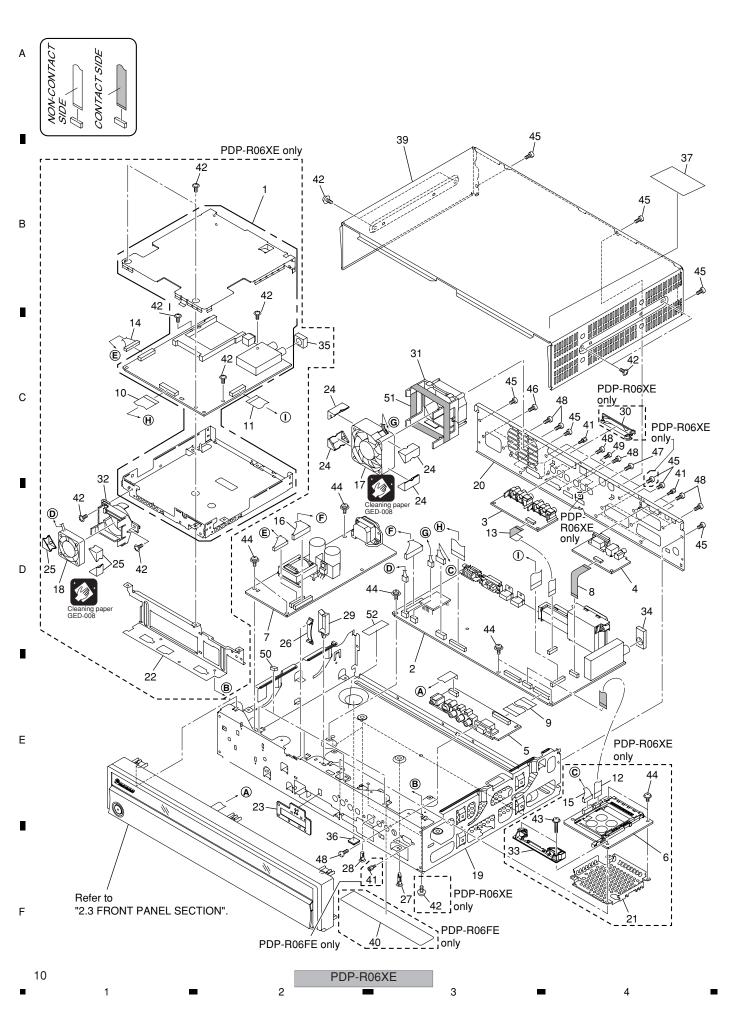
| Mark | No. | Symbol and Description | PDP-R06XE /WYVIXK5 | PDP-R06FE /WYVI5 | PDP-R06FE /WYVIXK5 |
|------|-----|--|-----------------------|---------------------|-----------------------|
| | 1 | Operating Instructions (Italian, Dutch, Spanish) | ARC1548 | ARC1543 | ARC1544 |
| | 2 | Operating Instructions (English, French, German) | ARE1400 | ARE1395 | ARE1396 |
| | 4 | Remote Control Unit | AXD1509 | AXD1491 | AXD1491 |
| | 5 | Battery Cover | AZN7919 | AZN7424 | AZN7424 |
| NSP | 6 | Dry Cell Battery (R6P, AA) | VEM1017 | VEM1031 | VEM1017 |
| | 9 | Pad L | AHA2445 | AHA2443 | AHA2445 |
| | 10 | Pad R | AHA2446 | AHA2444 | AHA2446 |
| | 11 | Carton EA | AHD3354 | Not used | Not used |
| | 11 | Carton E1 | Not used | AHD3353 | Not used |
| | 11 | Carton E2 | Not used | Not used | AHD3356 |
| | 12 | Accessory Carton E | AHD3359 | Not used | AHD3359 |
| | 12 | Accessory Carton J | Not used | AHD3422 | Not used |
| | 13 | Manual Case | AHD3424 | AHD3427 | AHD3424 |

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2.2 EXTERIOR SECTION



| | 3 | | | | |
|---------|-------|------|--------|------|-----|
| (1) FX1 | FRIOR | SECT | ION PA | RTSI | IST |

| Mark | No. | <u>Description</u> | Part No. | <u>Mark</u> | No. | <u>Description</u> | Part No. | |
|----------|-----|-------------------------|------------------------|-------------|-----|-------------------------|------------------------|---|
| | 1 | R06 D-TUNER Assy | See Contrast table (2) | | 27 | Circuit Board Spacer | AEC1969 | |
| <u> </u> | 2 | MR MAIN Assy | See Contrast table (2) | | 28 | Circuit Board Spacer | AEC2028 | Α |
| | 3 | REAR IO Assy | See Contrast table (2) | | 29 | Re-used Wire Saddle | AEC2038 | ^ |
| | 4 | SR Assy | See Contrast table (2) | | 30 | Rear Cover | See Contrast table (2) | |
| | 5 | FRONT Assy | See Contrast table (2) | | | | | |
| | | | | | 31 | Fan Holder 60 | AMR3451 | |
| | 6 | PC CARD Module | See Contrast table (2) | | 32 | Fan Holder 40 | See Contrast table (2) | |
| <u> </u> | 7 | POWER SUPPLY Unit | AXY1114 | | 33 | PC Guide | See Contrast table (2) | |
| | 8 | Flexible Cable (J208) | ADD1213 | <u> </u> | 34 | Gasket M | ANK1774 | |
| | 9 | Flexible Cable (J201) | ADD1305 | <u> </u> | 35 | Gasket N | See Contrast table (2) | |
| | 10 | Flexible Cable (J202) | See Contrast table (2) | | | | | |
| | | | | | 36 | Rubber Foot | VEB1349 | |
| | 11 | Flexible Cable (J205) | See Contrast table (2) | | 37 | Caution Label | See Contrast table (2) | В |
| | 12 | Flexible Cable (J206) | See Contrast table (2) | | 38 | WEEE Label L | AAX3198 | |
| | 13 | Flexible Cable (J209) | ADD1310 | | 39 | Metal Bonnet | See Contrast table (2) | |
| | 14 | 12P Housing Wire (J102) | See Contrast table (2) | | 40 | Bottom Cover | See Contrast table (2) | |
| | 15 | 6P Housing Wire (J103) | See Contrast table (2) | | | | | |
| | | | | | 41 | HEX Head Screw | BBA1051 | _ |
| | 16 | 16P Housing Wire (J101) | ADX3191 | | 42 | Screw | ABZ30P060FTC | |
| <u> </u> | 17 | Fan Motor (60 x 25L) | AXM1045 | | 43 | Screw | See Contrast table (2) | |
| <u> </u> | 18 | Fan Motor (42 x 10.5L) | See Contrast table (2) | | 44 | Screw | BBB30P080FTC | |
| | 19 | Base Chassis | See Contrast table (2) | | 45 | Screw | BBZ30P060FTB | |
| | 20 | Terminal Panel | See Contrast table (2) | | | | | |
| | | | | | 46 | Screw | BBZ30P100FTC | С |
| ⚠ | 21 | PC Shield | See Contrast table (2) | | 47 | Screw | BMZ30P060FTC | |
| | 22 | Frame B | See Contrast table (2) | | 48 | Screw | BPZ30P080FTB | |
| ⚠ | 23 | Shield Plate | See Contrast table (2) | | 49 | Screw | PMZ26P060FTB | |
| | 24 | Floating Rubber 60 | AEB1410 | | 50 | Front Panel Spacer | AEB1429 | |
| | 25 | Floating Rubber 40 | See Contrast table (2) | | | | | |
| | | | | | 51 | TERAOKA No.570F 16mm(W) | GYH1001 | _ |
| | 26 | Flat Clamp | AEC1858 | | | | | |

(2) CONTRAST TABLE
PDP-R06XE/WYVIXK5, PDP-R06FE/WYVI5 and WYVIXK5 are constructed the same except for the following:

| /lark | N o. | Symbol and Description | PDP-R06XE /WYVIXK5 | PDP-R06FE /WYVI5 | PDP-R06FE /WYVIXK5 | |
|---|---------|-------------------------|-----------------------|---------------------|-----------------------|--|
| | 1 | R06 D-TUNER Assy | AWE1304 | Not used | Not used | |
| <u> </u> | 2 | MR MAIN Assy | AWV2219 | AWV2221 | AWV2221 | |
| | 3 | REAR IO Assy | AWW1036 | AWW1040 | AWW1040 | |
| | 4 | SR Assy | AWW1037 | AWW1041 | AWW1041 | |
| | 5 | FRONT Assy | AWW1038 | AWW1042 | AWW1042 | |
| | 6 | PC CARD Module | AXY1073 | Not used | Not used | |
| | 10 | Flexible Cable (J202) | ADD1306 | Not used | Not used | |
| | 11 | Flexible Cable (J205) | ADD1307 | Not used | Not used | |
| | 12 | Flexible Cable (J206) | ADD1308 | Not used | Not used | |
| | 14 | 12P Housing Wire (J102) | ADX3138 | Not used | Not used | |
| | 15 | 6P Housing Wire (J103) | ADX3139 | Not used | Not used | |
| \triangle | 18 | Fan Motor (42 x 10.5L) | AXM1050 | Not used | Not used | |
| | 19 | Base Chassis J | ANA1891 | Not used | Not used | |
| | 19 | Base Chassis | Not used | ANA1868 | ANA1868 | |
| | 20 | Terminal Panel EA | ANC2375 | Not used | Not used | |
| | 20 | Terminal Panel EB1 | Not used | ANC2373 | Not used | |
| | 20 | Terminal Panel EB2 | Not used | Not used | ANC2374 | |
| $\triangle\!$ | 21 | PC Shield | ANG2578 | Not used | Not used | |
| | 22 | Frame B | ANG2792 | Not used | Not used | |

PDP-R06XE

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| Mark | N o. | Symbol and Description | PDP-R06XE /WYVIXK5 | PDP-R06FE /WYVI5 | PDP-R06FE /WYVIXK5 |
|----------|---------|------------------------|-----------------------|---------------------|-----------------------|
| <u> </u> | 23 | Shield Plate | ANG2838 | Not used | Not used |
| | 25 | Floating Rubber 40 | AEB1413 | Not used | Not used |
| | 30 | Rear Cover | AMR3425 | Not used | Not used |
| | 32 | Fan Holder 40 | AMR3453 | Not used | Not used |
| | 33 | PC Guide | AMR3468 | Not used | Not used |
| <u> </u> | 35 | Gasket N | ANK1776 | Not used | Not used |
| | | | | | |
| | 37 | Caution Label | AAX3196 | Not used | Not used |
| | 39 | Metal Bonnet | ANE1653 | Not used | Not used |
| | 39 | Metal Bonnet FE | Not used | ANE1652 | ANE1652 |
| | 40 | Bottom Cover | Not used | AAX3223 | AAX3221 |
| | 42 | Screw | ABZ30P060FTC | ABZ30P060FTB | ABZ30P060FTB |
| | | | | | |
| | 43 | Screw | ABZ30P180FTC | Not used | Not used |
| | 52 | Label | AAX3247 | Not used | Not used |

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• Pasting up location WEEE Label (No.38)

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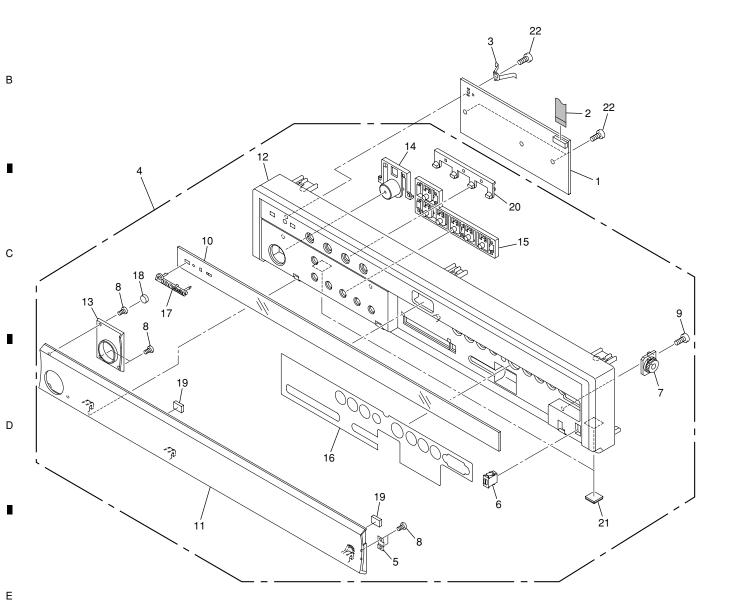
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PDP-R06XE

2.3 FRONT PANEL SECTION

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SIDE
CONTACT SIDE



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PDP-R06XE

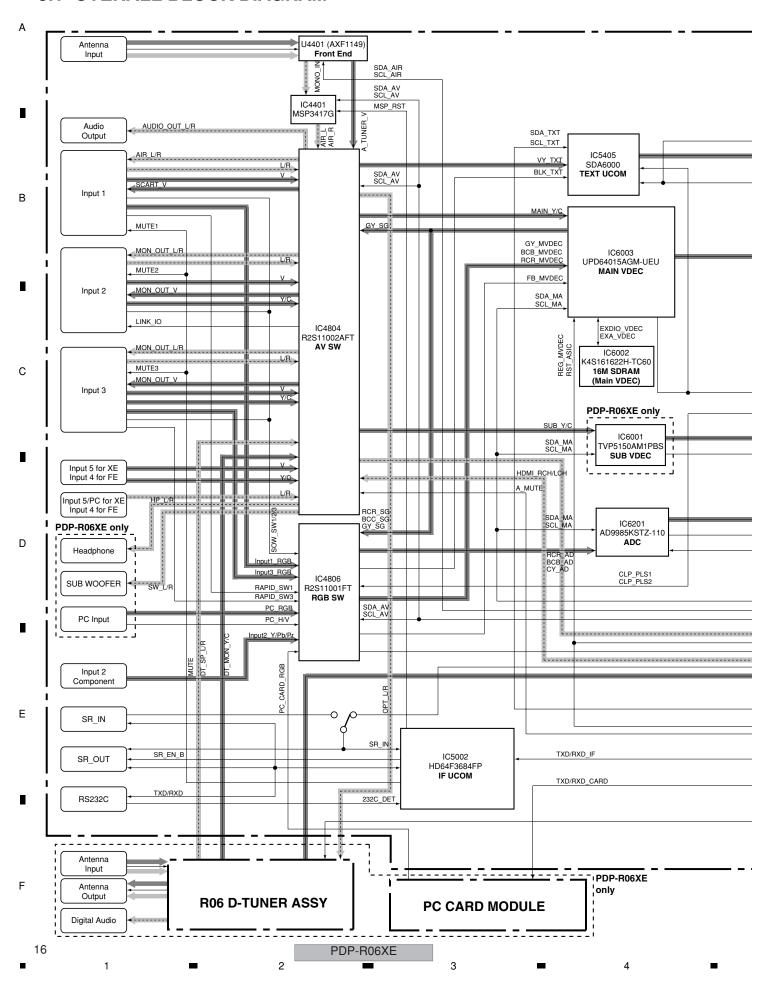
(1) FRONT PANEL SECTION PARTS LIST

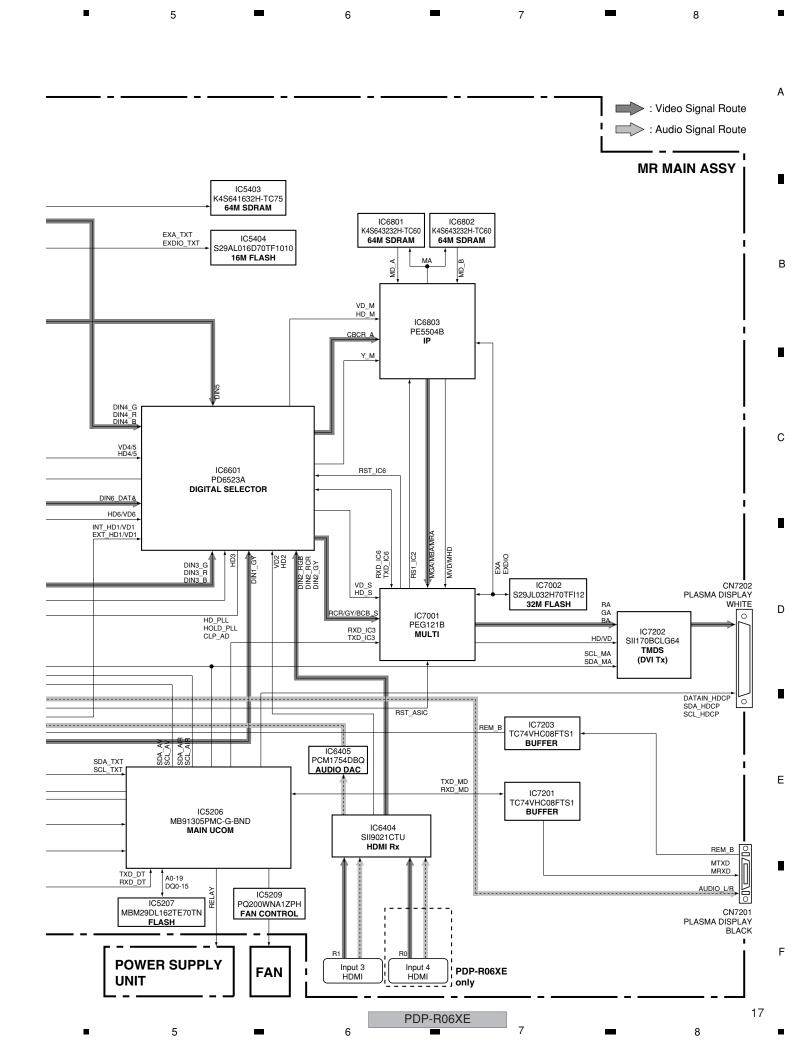
| Mark No. | <u>Description</u> | Part No. | |
|----------|-----------------------|------------------------|---|
| 1 | LED Assy | See Contrast table (2) | |
| 2 | Flexible Cable (J207) | ADD1309 | Α |
| <u> </u> | Earth Metal | BNG1336 | ^ |
| 4 | Front Panel Assy | See Contrast table (2) | |
| 5 | Magnet Catcher | ANG2820 | |
| 6 | Magnet Holder Assy | AEC1077 | |
| 7 | Gear Damper | AXA1019 | |
| 8 | Screw (2 x 3.5) | ABA1329 | |
| 9 | Screw | BPZ30P080FTB | |
| 10 | Indicator Panel | See Contrast table (2) | |
| 11 | Door | See Contrast table (2) | В |
| 12 | Front Panel | See Contrast table (2) | |
| 13 | Escutcheon Ring | AAD4134 | |
| NSP 14 | Power Button | AAD4135 | |
| NSP 15 | Operation Button | AAD4136 | |
| 16 | Sealing Sheet | See Contrast table (2) | |
| 17 | Pioneer Name Plate | AAM1107 | |
| 18 | Door Cushion | AEB1412 | |
| 19 | Door Cushion S | See Contrast table (2) | |
| NSP 20 | LED Lens | AMR3452 | _ |
| 21 | Rubber Foot | VEB1349 | С |
| 22 | Screw | BPZ30P080FTB | |
| | | | |

(2) CONTRAST TABLE PDP-R06XE/WYVIXK5, PDP-R06FE/WYVI5 and WYVIXK5 are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-R06XE /WYVIXK5 | PDP-R06FE /WYVI5 | PDP-R06FE /WYVIXK5 |
|------|-----|------------------------|-----------------------|---------------------|-----------------------|
| | 1 | LED Assy | AWW1039 | AWW1043 | AWW1043 |
| | 4 | Front Panel Assy XE | AXG1030 | Not used | Not used |
| | 4 | Front Panel Assy FE | Not used | AXG1029 | AXG1029 |
| | 10 | Indicator Panel (XE) | AAK2841 | Not used | Not used |
| | 10 | Indicator Panel (FE) | Not used | AAK2840 | AAK2840 |
| | 11 | Door (XE) | AAN1479 | Not used | Not used |
| | 11 | Door (FE) | Not used | AAN1478 | AAN1478 |
| | 12 | Front Panel (XE) | AMB2863 | Not used | Not used |
| | 12 | Front Panel (FE) | Not used | AMB2862 | AMB2862 |
| | 16 | Sealing Sheet (XE) | AAL2665 | Not used | Not used |
| | 16 | Sealing Sheet (FE) | Not used | AAL2664 | AAL2664 |
| | 19 | Door Cushion S | AEB1425 | Not used | Not used |
| | 19 | Door Cushion S (UE) | Not used | AEB1426 | AEB1426 |

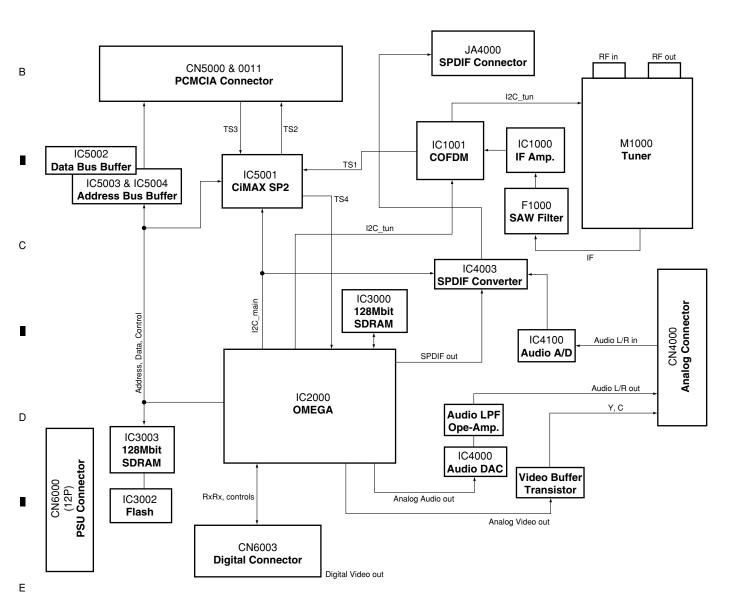
3.1 OVERALL BLOCK DIAGRAM





R06 D-TUNER ASSY

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POWER SUPPLY UNIT

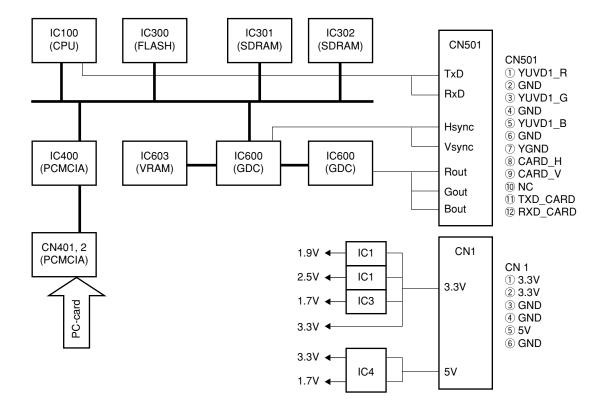
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PC CARD MODULE



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PDP-R06XE

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3.6 VOLTAGES

| CN7804 (AKM1236) | | Voltage | CN4001 (AKM12 | 1SS1 236) | |
|------------------|--------------|---------|---------------|--------------|--|
| No. | Name | (V) | Name | No. | |
| 50 | V+9V A | 9.0 | V+9V A | 1 | |
| 49 | V+5V_A | 5.0 | V+5V_A | 2 | |
| 48 | V+3 3V UCOM2 | 3.4 | V+3 V_A | 3 | |
| 47 | WE RDM | 0 | WE RDM | 4 | |
| 46 | GND | 0 | GND | 5 | |
| 45 | INPUT5 R | 4.5 | INPUT5 R | 6 | |
| 44 | GND | 0 | GND | 7 | |
| 43 | INPUT5 L | 4.5 | INPUT5 L | 8 | |
| 42 | GND | 0 | GND | 9 | |
| 41 | INPUT5 V | 2.5 | INPUT5 V | 10 | |
| | | | _ | 11 | |
| 40 | GND | 0 | GND | _ | |
| 39 | INPUT5_S2 | 0 | INPUT5_S2 | 12 | |
| 38 | INPUT5_SPLUG | 5.0 | INPUT5_SPLUG | 13 | |
| 37 | GND | 0 | GND | 14 | |
| 36 | INPUT5_C | 2.2 | INPUT5_C | 15 | |
| 35 | GND | 0 | GND | 16 | |
| 34 | INPUT5_Y | 2.5 | INPUT5_Y | 17 | |
| 33 | GND | 0 | GND | 18 | |
| 32 | GND | 0 | GND | 19 | |
| 31 | HP_L | 2.1 | HP_L | 20 | |
| 30 | GND | 0 | GND | 21 | |
| 29 | GND | 0 | GND | 22 | |
| 28 | HP_R | 2.1 | HP_R | 23 | |
| 27 | GND | 0 | GND | 24 | |
| 26 | GND | 0 | GND | 25 | |
| 25 | NC | 0 | NC | 26 | |
| 24 | HP_PLUG | 0 | HP_PLUG | 27 | |
| 23 | GND | 0 | GND | 28 | |
| 22 | GND | 0 | GND | 29 | |
| 21 | PC_R | 2.5 | PC_R | 30 | |
| 20 | GND | 0 | GND | 31 | |
| 19 | PC_B | 2.5 | PC_B | 32 | |
| 18 | GND | 0 | GND | 33 | |
| 17 | PC_G | 2.5 | PC_G | 34 | |
| 16 | GND | 0 | GND | 35 | |
| 15 | PC_H | 0 | PC_H | 36 | |
| 14 | GND | 0 | GND | 37 | |
| 13 | PC_V | 0 | PC_V | 38 | |
| 12 | GND | 0 | GND | 39 | |
| 11 | GND | 0 | GND | 40 | |
| 10 | GND | 0 | GND | 41 | |
| 9 | GND | 0 | GND | 42 | |
| 8 | KEY_AD2 | 3.4 | KEY_AD2 | 43 | |
| 7 | KEY_AD1 | 3.4 | KEY_AD1 | 44 | |
| 6 | LED_REC | 3.4 | LED_REC | 45 | |
| 5 | V+5_1V_STB | 5.1 | V+5_1V_STB | 46 | |
| 4 | GND | 0 | GND | 47 | |
| 3 | LED OFF | 3.4 | LED OFF | 48 | |
| 2 | LED ON | 0 | LED ON | 49 | |
| 1 | V+3 3V STB | 3.4 | V+3 3V STB | 50 | |

| CN7601 (CKS3826) | | Voltage | CN4008 (AKM12 | 233) |
|------------------|-----------|---------|---------------|------|
| No. | Name | (V) | Name | No. |
| 12 | V+5_1_STB | 5.1 | V+5_1_STB | 1 |
| 11 | V+3_3_STB | 3.4 | V+3_3_STB | 2 |
| 10 | TXD | 3.4 | TXD | 3 |
| 9 | RXD | 3.4 | RXD | 4 |
| 8 | 232C_DET | 0 | 232C_DET | 5 |
| 7 | SR_EN_B | 3.4 | SR_EN_B | 6 |
| 6 | GND | 0 | GND | 7 |
| 5 | REM_B | 3.4 | REM_B | 8 |
| 4 | SR_IN | 3.4 | SR_IN | 9 |
| 3 | GND | 0 | GND | 10 |
| 2 | NC | - | NC | 11 |
| 1 | GND | 0 | GND | 12 |

| REA | R IO ASSY | | MR MAIN A | SSY |
|-----|----------------|---------|---------------|-----|
| CN | 7402 (CKS3826) | Voltage | CN4008 (AKM12 | 33) |
| No. | Name | (V) | Name | No. |
| 12 | INPUT2_Y | 2.5 | INPUT2_Y | 1 |
| 11 | INPUT2_PULG | 0 | INPUT2_PULG | 2 |
| 10 | V+5V_A | 5.0 | V+5V_A | 3 |
| 9 | INPUT2_PB | 2.5 | INPUT2_PB | 4 |
| 8 | GND | 0 | GND | 5 |
| 7 | INPUT2_PR | 2.5 | INPUT2_PR | 6 |
| 6 | GND | 0 | GND | 7 |
| 5 | AUDIO_OUT_L | 0 | AUDIO_OUT_L | 8 |
| 4 | GND | 0 | GND | 9 |
| 3 | AUDIO_OUT_R | 0 | AUDIO_OUT_R | 10 |
| 2 | GND | 0 | GND | 11 |
| 1 | SW_OUT | 0 | SW_OUT | 12 |

| MR N | MAIN ASSY | | POWER SUPPLY | UNIT |
|------|-----------------|---------|-----------------|-------|
| CN4 | 006 (KM200NA16) | Voltage | CN101 (B16B-PH- | ·K-S) |
| No. | Name | (V) | Name | No. |
| 16 | V+35V | 35.8 | V+35V | 16 |
| 15 | GND | 0 | GND | 15 |
| 14 | V+17V | 0 | V+17V | 14 |
| 13 | GND | 0 | GND | 13 |
| 12 | V+12V | 12.2 | V+12V | 12 |
| 11 | GND | 0 | GND | 11 |
| 10 | V+6_8V | 6.6 | V+6_8V | 10 |
| 9 | GND | 0 | GND | 9 |
| 8 | V+5_1V | 5.1 | V+5_1V | 8 |
| 7 | V+5_1V | 5.1 | V+5_1V | 7 |
| 6 | V+5_1V_STB | 5.1 | V+5_1V_STB | 6 |
| 5 | GND | 0 | GND | 5 |
| 4 | V+3_3V_STB | 3.4 | V+3_3V_STB | 4 |
| 3 | GND | 0 | GND | 3 |
| 2 | RELAY | 3.4 | RELAY | 2 |
| 1 | AC_DET | 3.4 | AC_DET | 1 |

| | D-TUNER ASSY | | MR MAIN ASSY | | |
|-----|----------------|----------|---------------|----------|--|
| | 6003 (AKM1236) | Voltage | CN4004 (AKM12 | 281) | |
| No. | Name | (V) | Name | No. | |
| 50 | GND | 0 | GND | 50 | |
| 49 | HD_DT | 3.3 | HD_DT | 49 | |
| 48 | GND | 0 | GND | 48 | |
| 47 | VD_DT | 3.3 | VD_DT | 47 | |
| 46 | GND | 0 | GND | 46 | |
| 45 | DE_DT | 0 | DE_DT | 45 | |
| 44 | GND | 0 | GND | 44 | |
| 43 | GND | 0 | GND | 43 | |
| 42 | GND | 0 | GND | 42 | |
| 41 | GND | 0 | GND | 41 | |
| 40 | GND | 0 | GND | 40 | |
| 39 | GND | 0 | GND | 39 | |
| 38 | GND | 0 | GND | 38 | |
| 37 | GND | 0 | GND | 37 | |
| 36 | GND | 0 | GND | 36 | |
| 35 | GND | 0 | GND | 35 | |
| 34 | GND | 0 | GND | 34 | |
| 33 | GND | 0 | GND | 33 | |
| 32 | GND | 0 | GND | 32 | |
| 31 | GND | 0 | GND | 31 | |
| 30 | GND | 0 | GND | 30 | |
| 29 | GND | 0 | GND | 29 | |
| 28 | GND | 0 | GND | 28 | |
| 27 | GND | 0 | GND | 27 | |
| 26 | GND | 0 | GND | 26 | |
| 25 | GND | 0 | GND | 25 | |
| 24 | GND | 0 | GND | 24 | |
| 23 | GND | 0 | GND | 23 | |
| 22 | NC | | NC | 22 | |
| 21 | NC | _ | NC | 21 | |
| 20 | GND | 0 | GND | 20 | |
| 19 | Y0 DT | 0 to 3.3 | Y0 DT | 19 | |
| 18 | Y1 DT | 0 to 3.3 | Y1_DT | 18 | |
| 17 | GND | 0 | GND | 17 | |
| 16 | Y2_DT | 0 to 3.3 | Y2_DT | 16 | |
| 15 | Y3 DT | 0 to 3.3 | Y3 DT | 15 | |
| 14 | GND | 0 | GND | 14 | |
| 13 | Y4 DT | 0 to 3.3 | Y4 DT | 13 | |
| 12 | Y5 DT | 0 to 3.3 | Y5_DT | 12 | |
| 11 | GND | 0 | GND | 11 | |
| 10 | Y6 DT | 0 to 3.3 | Y6 DT | 10 | |
| 9 | Y7 DT | 0 to 3.3 | Y7 DT | 9 | |
| 8 | GND | 0 | GND | 8 | |
| 7 | CLK_DT | 0 to 3.3 | CLK_DT | 7 | |
| 6 | GND | 0 | GND | 6 | |
| 5 | DT FNC | 3.3 | DT FNC | 5 | |
| 4 | GND | 0 | GND | 4 | |
| 3 | RXD DT | 3.3 | RXD DT | 3 | |
| 2 | TXD_DT | 3.3 | TXD_DT | 2 | |
| 1 | GND | 0 | GND | 1 | |
| | GIID | | UI ID | <u>'</u> | |

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PDP-R06XE

| CN6000 (AKM1298) | | Voltage | CN102 (B12B-PH | -K-S) |
|------------------|------------|---------|----------------|-------|
| No. | Name | (V) | Name | No. |
| 1 | V+35V | 35.8 | V+35V | 1 |
| 2 | GND | 0 | GND | 2 |
| 3 | V+17V | 0 | V+17V | 3 |
| 4 | GND | 0 | GND | 4 |
| 5 | V+12V | 12.2 | V+12V | 5 |
| 6 | GND | 0 | GND | 6 |
| 7 | V+6.8V | 6.6 | V+6.8V | 7 |
| 8 | V+5.1V_STB | 5.1 | V+5.1V_STB | 8 |
| 9 | V+5.1V | 5.1 | V+5.1V | 9 |
| 10 | V+5.1V | 5.1 | V+5.1V | 10 |
| 11 | GND | 0 | GND | 11 |
| 12 | V+3.3V STB | 3.4 | V+3.3V STB | 12 |

| FAN | | | MR MAIN A | ISSY |
|-----|------|---------|---------------|------|
| | | Voltage | CN4007 (AKM12 | 74) |
| No. | Name | (V) | Name | No. |
| _ | - | 6.5 | FAN_VCC | 1 |
| _ | - | 0 | FAN_NG2 | 2 |
| _ | - | 0 | GND | 3 |

| FAN MR MAIN ASSY | | | | | |
|------------------|------|---------|--------------|------|--|
| | | Voltage | CN4009 (AKM1 | 274) | |
| No. | Name | (V) | Name | No. | |
| - | - | 6.5 | FAN_VCC | 1 | |
| - | - | 0 | FAN_NG1 | 2 | |
| - | - | 0 | GND | 3 | |

| FRO | NT ASSY | LED A | ASSY | |
|-----|----------------|---------|---------------|-----|
| CN | 7803 (AKM1233) | Voltage | CN8001 (CKS38 | 28) |
| No. | Name | (V) | Name | No. |
| 1 | GND | 0 | GND | 12 |
| 2 | GND | 0 | GND | 11 |
| 3 | GND | 0 | GND | 10 |
| 4 | GND | 0 | GND | 9 |
| 5 | KEY_AD2 | 3.4 | KEY_AD2 | 8 |
| 6 | KEY_AD1 | 3.4 | KEY_AD1 | 7 |
| 7 | LED_REC | 3.4 | LED_REC | 6 |
| 8 | V+5_1V_STB | 5.1 | V+5_1V_STB | 5 |
| 9 | GND | 0 | GND | 4 |
| 10 | LED_R | 3.4 | LED_R | 3 |
| 11 | LED_G | 0 | LED_G | 2 |
| 12 | V+3_3V_STB | 3.4 | V+3_3V_STB | 1 |

| CN | 4005 (AKM1303) | Voltage | CN4000 (AKM12 | 217) |
|-----|----------------|---------|---------------|------|
| No. | Name | (V) | Name | No |
| 40 | GND | 0 | GND | 40 |
| 39 | DT_DET | 0 | DT_DET | 39 |
| 38 | RST_DT | 3.3 | RST_DT | 38 |
| 37 | NOT USE | 0 | NOT USE | 37 |
| 36 | ANT_POW_EU | 0 | ANT_POW_EU | 36 |
| 35 | GND | 0 | GND | 35 |
| 34 | GND | 0 | GND | 34 |
| 33 | NOT_USE | 0 | NOT_USE | 33 |
| 32 | GND | 0 | GND | 32 |
| 31 | GND | 0 | GND | 31 |
| 30 | NOT_USE | 0 | NOT_USE | 30 |
| 29 | GND | 0 | GND | 29 |
| 28 | GND | 0 | GND | 28 |
| 27 | NOT_USE | 0 | NOT_USE | 27 |
| 26 | GND | 0 | GND | 26 |
| 25 | GND | 0 | GND | 25 |
| 24 | GND | 0 | GND | 24 |
| 23 | GND | 0 | GND | 23 |
| 22 | GND | 0 | GND | 22 |
| 21 | GND | 0 | GND | 21 |
| 20 | GND | 0 | GND | 20 |
| 19 | GND | 0 | GND | 19 |
| 18 | DT_MON_Y | 1.8 | DT_MON_Y | 18 |
| 17 | GND | 0 | GND | 17 |
| 16 | GND | 0 | GND | 16 |
| 15 | DT_MON_C | 1.8 | DT_MON_C | 15 |
| 14 | GND | 0 | GND | 14 |
| 13 | OPT_L | 0 | OPT_L | 13 |
| 12 | GND | 0 | GND | 12 |
| 11 | OPT_R | 0 | OPT_R | 11 |
| 10 | GND | 0 | GND | 10 |
| 9 | DT_SP_L | 0 | DT_SP_L | 9 |
| 8 | GND | 0 | GND | 8 |
| 7 | DT_SP_R | 0 | DT_SP_R | 7 |
| 6 | GND | 0 | GND | 6 |
| 5 | GND | 0 | GND | 5 |
| 4 | GND | 0 | GND | 4 |
| 3 | GND | 0 | GND | 3 |
| 2 | GND | 0 | GND | 2 |
| 1 | GND | 0 | GND | 1 |

| MR N | IAIN ASSY | | PC CARD MO | DULE |
|------|----------------|---------|------------------|-------|
| CN4 | 4003 (AKM1233) | Voltage | CN501 (HFW12S-25 | STE1) |
| No. | Name | (V) | Name | No. |
| 1 | RXD_CARD | 3.3 | RXD_CARD | 12 |
| 2 | TXD_CARD | 3.3 | TXD_CARD | 11 |
| 3 | NC | 0 | NC | 10 |
| 4 | PC_CARD_V | 3.3 | PC_CARD_V | 9 |
| 5 | PC_CARD_H | 3.3 | PC_CARD_H | 8 |
| 6 | GND | 0 | GND | 7 |
| 7 | GND | 0 | GND | 6 |
| 8 | PC_CARD_B | 0 | PC_CARD_B | 5 |
| 9 | GND | 0 | GND | 4 |
| 10 | PC_CARD_G | 0 | PC_CARD_G | 3 |
| 11 | GND | 0 | GND | 2 |
| 12 | PC_CARD_R | 0 | PC_CARD_R | 1 |

| MR N | MAIN ASSY | | PC CARD MOD | ULE | |
|------------------|-------------|---------|------------------|-----|--|
| CN4002 (AKM1277) | | Voltage | CN1 (BBB-PH-SM3) | | |
| No. | Name | (V) | Name | No. | |
| 6 | GND | 0 | GND | 6 | |
| 5 | V+5V_CARD | 5.0 | V+5V_CARD | 5 | |
| 4 | GND | 0 | GND | 4 | |
| 3 | GND | 0 | GND | 3 | |
| 2 | V+3_3V_CARD | 3.3 | V+3_3V_CARD | 2 | |
| 1 | V+3_3V_CARD | 3.3 | V+3_3V_CARD | 1 | |

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PDP-R06XE

Refer to service manual (ARP3276).

Note: The encircled numbers denote measuring point in the schematic diagram.

MR MAIN ASSY

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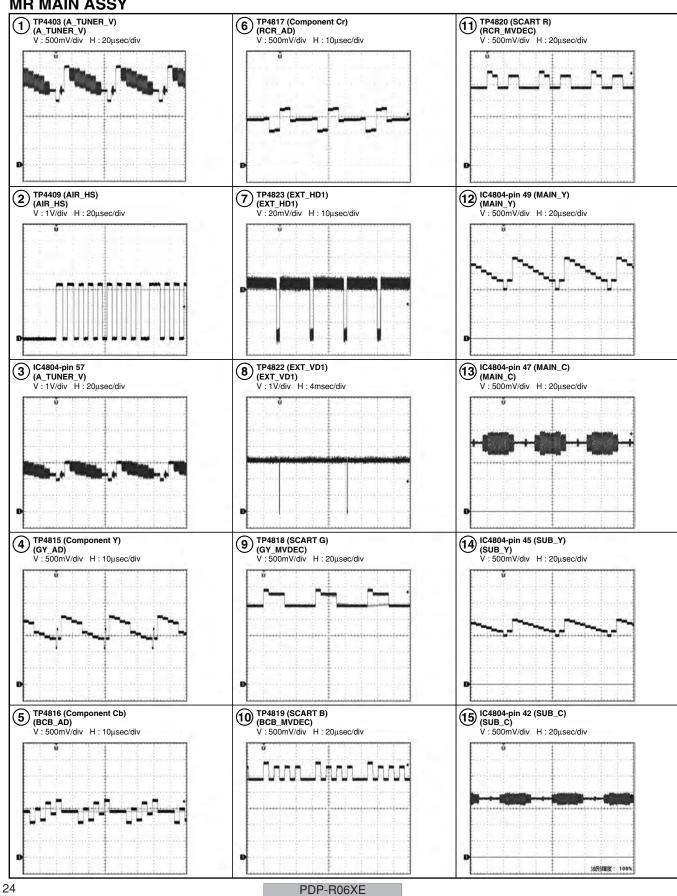
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NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots RN1/4PC[5][6][2][1F]$

■ LIST OF HOLE PCB ASSEMBLIES

| Mark | Symbol and Description | PDP-R06XE /WYVIXK5 | PDP-R06FE /WYVI5 | PDP-R06FE /WYVIXK5 |
|----------|------------------------|-----------------------|---------------------|-----------------------|
| | 1R06 D-TUNER ASSY | AWE1304 | Not used | Not used |
| <u> </u> | 1MR MAIN ASSY | AWV2219 | AWV2221 | AWV2221 |
| NSP 1 | 1MR FUKUGO ASSY | AWV2220 | AWV2222 | AWV2222 |
| | 2REAR IO ASSY | AWW1036 | AWW1040 | AWW1040 |
| | 2SR ASSY | AWW1037 | AWW1041 | AWW1041 |
| | 2FRONT ASSY | AWW1038 | AWW1042 | AWW1042 |
| | 2LED ASSY | AWW1039 | AWW1043 | AWW1043 |
| <u> </u> | 1POWER SUPPLY UNIT | AXY1114 | AXY1114 | AXY1114 |

■ FOR PDP-R06XE

| Mark No. Description | Part No. | Mark No. | Description | Part No. | |
|--------------------------------|-------------------|------------------|---------------------------|--------------------|---|
| R06 D-TUNER ASSY | | C1004,C1055 | | CEHVKW101M6R3 | |
| | | C1010 | | CEHVKW2R2M50 | |
| [TUNER BLOCK] | | C1102 | | CEHVKW331M6R3 | |
| <u>SEMICONDUCTORS</u> | | C1018,C1027, | C1029,C1050 | CEHVKW470M16 | |
| IC1001 | STV0361L | C1056,C1057 | | CEHVKW470M16 | |
| IC1000 | UPC3221GV | | | | D |
| Q1001 | 2SC2412K | C1015 | | CKSRYB102K50 | |
| Q1002 | DTC124EUA | C1013,C1021, | C1040,C1041,C1045 | CKSRYB103K50 | |
| Q1003,Q1004 | RK7002 | C1001-C1003, | ,C1017,C1022 | CKSRYB104K16 | |
| | | C1025,C1026, | C1030-C1035,C1037 | CKSRYB104K16 | |
| D1001 | 1SS355 | C1039,C1049, | C1053,C1058-C1062 | CKSRYB104K16 | |
| ⚠ D1000 | SM15T6V8A | | | | |
| | | C1036 | | CKSRYB105K10 | |
| COILS AND FILTERS | | | | | |
| L1002 | LCYAR82J2520 | RESISTORS | | | |
| F1001,F1003-F1010 FERRITE BEAD | VTF1091 | All Resistors | | RS1/16S###J | |
| F1012-F1014 FERRITE BEAD | VTF1091 | | | | |
| F1100,F1101 FERRITE BEAD | VTF1091 | OTHERS | | | |
| F1202-F1204 FERRITE BEAD | VTF1091 | | P FUSE (0.25A) | XEK1003 | Ε |
| | | X1100 CRYS | , | XSS1010 | |
| F1000 SAW FILTER | XTF1002 | 71100 01110 | , i, (E (E / i viii i E) | 7,001010 | |
| L1200 CHIP FERRITE BEAD | XTX1001 | | | | |
| L1004 CHIP FERRITE BEAD | XTX1003 | [DEMUX BLC | nck1 | | |
| L1000 CHIP BALUN TRANS | XTX1005 | _ | _ | | |
| | | SEMICONDU | ICTORS | | |
| CAPACITORS | | IC2001 | | SN74LVU04APW | |
| C1054 | BCG1050 | IC2000 | | STI5517DWAL | |
| C1028,C1038,C1042,C1046,C1051 | CCG1205 | IC2002 | | TC74VHC08FTS1 | |
| C1043,C1044 | CCSRCJ3R0C50 | Q2000 | | 2SC4081 | |
| C1020 | CEHVKW100M16 | D2000 | | DA204U | |
| C1019 | CEHVKW100M50 | | | | |
| 01010 | OZITVIKVV TOOMIOO | D2002 | | HVU307 | F |
| | | D2005,D2009 | | RB501V-40 | |
| | | D2001 | | UDZS8R2(B) | |
| | | VA2002 | | AVR-M1608C120MT2AB | |

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| Mark No | D | | | |
|--|---|--|--|--|
| IVIAIR IVO | . Description | Part No. | Mark No. Description | Part No. |
| COILS | AND FILTERS | | CAPACITORS | |
| • | F2003 FERRITE BEAD | VTF1091 | C4000,C4002 | CCG1205 |
| | CHIP FERRITE BEAD | XTX1003 | C4010,C4011,C4042 | CCSRCH101J |
| L2000 | CHIP FERRITE BEAD | X1X1003 | | |
| | | | C4008,C4009 | CCSRCH121J |
| CAPAC | <u>ITORS</u> | | C4007,C4013 | CCSRCH220J |
| C2014. | C2016 | CCSRCH100D50 | C4019,C4102-C4104,C4108-C4113 | CEHVKW100M |
| , | C2026,C2030 | CCSRCH101J50 | | |
| C2009 | 02020,02000 | CCSRCH330J50 | C4004 | CEHVKW2R2N |
| C2011, | C2012 | CCSRCH390J50 | C4012.C4022.C4023.C4029.C4039 | CEHVKW470N |
| | 02012 | | C4006 | CKSRYB102K |
| C2007 | | CCSRCH471J50 | C4001,C4014,C4032,C4033,C4038 | CKSRYB103K |
| | | | C4040.C4041 | CKSRYB105K |
| | ·C2034,C2036 | CEHVKW470M16 | C4040,C4041 | CNSHIBIUSK |
| | C2017,C2020,C2021 | CKSRYB102K50 | 0.4000 0.4000 0.4000 0.4000 | 01/05/15/15 |
| C2013 | | CKSRYB105K10 | C4003,C4005,C4017,C4018,C4021 | CKSRYF104Z1 |
| C2001 | | CKSRYB471K50 | C4024,C4043,C4105-C4107 | CKSRYF104Z1 |
| C2002, | C2003,C2005,C2006 | CKSRYF104Z16 | | |
| | | | RESISTORS | |
| C2018 | C2019,C2022-C2025,C2028 | CKSRYF104Z16 | R4042,R4045,R4046 | RS1/16S2000F |
| | C2037-C2041,C2043-C2045 | CKSRYF104Z16 | Other Resistors | RS1/16S###J |
| C2047, | | CKSRYF104Z16 | Other resistors | 1101/100###0 |
| , | 02040 | | OTHERO | |
| C2015 | | CKSRYF105Z10 | <u>OTHERS</u> | |
| C2027, | C2029,C2042,C2046 | CKSRYF223Z50 | CN4000 40P CONNECTOR | AKM1217 |
| | | | JA4000 OPTICAL OUT MODULE | GP1FM513TZ |
| C2004 | | CKSRYF474Z16 | X4000 CRYSTAL (12.288MHz) | XSS1006 |
| | | | , , | |
| RESIST | ORS | | | |
| | R2018,R2042 | RAB4C103J | [COMMON-INTERFACE BLOCK | 71 |
| R2070, | | RAB4CQ220J | | 7] |
| , | Resistors | RS1/16S###J | <u>SEMICONDUCTORS</u> | |
| Other | 162121012 | N31/103###J | IC5001 | CIMAXSP2L |
| | | | IC5000 | ST890CDR |
| OTHER | <u>S</u> | | IC5002 | TC74LCX245F |
| X2001 | CRYSTAL | ASS1172 | IC5003,IC5004 | TC74LCX373F |
| X2000 | CRYSTAL (27MHz) | BSS1112 | Q5000 | 2SC4081 |
| | | | 05004 | DTA143EUA |
| [MEMO | RY BLOCK] | | Q5001 Q5002 | |
| - | RY BLOCK] | | Q5001 Q5002 | DTC124EUA |
| SEMICO | <u>ONDUCTORS</u> | V48201622E 1107E | Q5002 | |
| SEMICO | _ | K4S281632F-UC75 | Q5002 CAPACITORS | DTC124EUA |
| SEMICO IC3000 | ONDUCTORS ,IC3003 | K4S281632F-UC75 | Q5002 <u>CAPACITORS</u> C5005,C5100 | DTC124EUA CEHVKW470M |
| SEMICO IC3000 | <u>ONDUCTORS</u> | K4S281632F-UC75 | Q5002 CAPACITORS C5005,C5100 C5001 | DTC124EUA CEHVKW470M CKSRYB105K1 |
| SEMICO IC3000 | ONDUCTORS ,IC3003 | K4S281632F-UC75 XTX1001 | Q5002 <u>CAPACITORS</u> C5005,C5100 | DTC124EUA CEHVKW470M CKSRYB105K1 |
| SEMICO IC3000 COILS A | ONDUCTORS I,IC3003 AND FILTERS | XTX1001 | Q5002 CAPACITORS C5005,C5100 C5001 | |
| SEMICO IC3000 COILS A | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD | | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 | DTC124EUA CEHVKW470M CKSRYB105K1 |
| SEMICO IC3000 COILS / L3005 L3003 | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD | XTX1001 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS | DTC124EUA CEHVKW470N CKSRYB105K1 CKSRYF104Z1 |
| SEMICO IC3000 COILS A L3005 L3003 | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD | XTX1001 XTX1003 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 |
| SEMICO 1C30000 COILS 2 | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS | XTX1001 XTX1003 CEHVKW470M16 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 | CEHVKW470N CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J |
| SEMICO 1C3000 COILS / L3005 L3003 CAPAC C3010 C3000, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 |
| SEMICO 1C30000 COILS 2 L3005 L3003 CAPAC C3010 C3000, C3017, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J |
| SEMICO 1C30000 COILS 2 L3005 L3003 CAPAC C3010 C3000, C3017, C3001, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS | CEHVKW470N CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J |
| SEMICO 1C30000 COILS 2 L3005 L3003 CAPAC C3010 C3000, C3017, C3001, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J |
| SEMICO IC3000 COILS A L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS | CEHVKW470N CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J |
| SEMICO 1C30000 COILS 2 L3005 L3003 CAPAC C3010 C3000, C3017, C3001, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR | CEHVKW470N CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J |
| SEMICO IC3000 COILS A L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR | CEHVKW470N CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J |
| SEMICO IC3000 COILS A L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR | CEHVKW470N CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J |
| SEMICO IC3000 COILS A L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 | CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS | CEHVKW470M CKSRYB105K* CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J |
| SEMICO IC3000 COILS A L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 |
| EMICO IC3000 COILS A L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- Other F | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 |
| COILS | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors DCK] | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 |
| COILS | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 |
| COILS | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors CKI DNDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 |
| COILS | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors CKI DNDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 |
| COILS | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors CKI DNDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 |
| SEMICO IC3000 COILS , L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- Other F [AV BLO SEMICO IC4000 IC4003 IC4100 | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors DCK] DNDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 Q6006 | CEHVKW470M CKSRYB105K*CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 BA05FP FPF2002 M5291FP TC74LCX245F 2SB1188 |
| COILS | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors CKI DNDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 Q6006 Q6100 Q6003,Q6005,Q6010 | CEHVKW470M CKSRYB105K*CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 BA05FP FPF2002 M5291FP TC74LCX245F 2SB1188 2SC4081 DTA143EUA |
| SEMICO IC3000 COILS , L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- Other F [AV BLO SEMICO IC4000 IC4003 IC4100 IC4002 IC4001 | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors DCK] DNDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J CS4334-KS CS8406CZZ PCM1803DB RC4558D SN74LVU04APW | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 Q6006 Q6100 Q6003,Q6005,Q6010 Q6001,Q6009,Q6011,Q6200 | CEHVKW470M CKSRYB105K: CKSRYF104Z1 RAB4CQ470J RS1/16S###J XKP1003 BA05FP FPF2002 M5291FP TC74LCX245F 2SB1188 2SC4081 DTA143EUA DTC124EUA |
| COILS | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors DCK] DNDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 Q6006 Q6100 Q6003,Q6005,Q6010 Q6001,Q6009,Q6011,Q6200 Q6008 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 BA05FP FPF2002 M5291FP TC74LCX245F 2SB1188 2SC4081 DTA143EUA DTC124EUA TPC8209 |
| SEMICO IC3000 COILS, L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- Other F [AV BLO SEMICO IC4000 IC4003 IC4100 IC4002 IC4001 Q4001, | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors OCK] ONDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J CS4334-KS CS8406CZZ PCM1803DB RC4558D SN74LVU04APW | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 Q6006 Q6100 Q6003,Q6005,Q6010 Q6001,Q6009,Q6011,Q6200 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 BA05FP FPF2002 M5291FP TC74LCX245F 2SB1188 2SC4081 DTA143EUA DTC124EUA |
| SEMICO IC3000 COILS , L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- Other F [AV BLO SEMICO IC4000 IC4003 IC4100 IC4002 IC4001 Q4001, COILS , | DNDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors CKI DNDUCTORS Q4002 AND FILTERS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J CS4334-KS CS8406CZZ PCM1803DB RC4558D SN74LVU04APW 2SC4081 | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 Q6006 Q6100 Q6003,Q6005,Q6010 Q6001,Q6009,Q6011,Q6200 Q6008 D6003,D6100-D6102 | DTC124EUA CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 BA05FP FPF2002 M5291FP TC74LCX245F 2SB1188 2SC4081 DTA143EUA DTC124EUA TPC8209 1SS355 |
| SEMICO IC3000 COILS , L3005 L3003 CAPAC C3010 C3000, C3017, C3001, C3018, RESIST R3004- Other F [AV BLO SEMICO IC4000 IC4003 IC4100 IC4002 IC4001 Q4001, COILS , | ONDUCTORS ,IC3003 AND FILTERS CHIP FERRITE BEAD CHIP FERRITE BEAD ITORS C3003,C3007,C3008,C3012 C3020-C3022 C3002,C3004,C3014,C3015 C3019,C3023,C3024 CORS R3014 Resistors OCK] ONDUCTORS | XTX1001 XTX1003 CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50 RAB4CQ470J RS1/16S###J CS4334-KS CS8406CZZ PCM1803DB RC4558D SN74LVU04APW | Q5002 CAPACITORS C5005,C5100 C5001 C5003,C5004,C5006,C5008-C5013 RESISTORS R5014,R5019,R5022,R5024,R5030 R5032,R5036-R5038,R5045-R5050 Other Resistors OTHERS CN5000 PCMCIA CONNECTOR [POWER BLOCK] SEMICONDUCTORS IC6002 IC6003 IC6001 IC6200 Q6006 Q6100 Q6003,Q6005,Q6010 Q6001,Q6009,Q6011,Q6200 Q6008 | CEHVKW470M CKSRYB105K1 CKSRYF104Z1 RAB4CQ470J RAB4CQ470J RS1/16S###J XKP1003 BA05FP FPF2002 M5291FP TC74LCX245F 2SB1188 2SC4081 DTA143EUA DTC124EUA TPC8209 |

PDP-R06XE

| 5 lark No. | Description | 6 <u>Part No.</u> | Mark No. | 7 Description | 8 Part No. | |
|-------------------------|-----------------|-------------------------|------------------------|---------------------------|-----------------|--|
| | • | <u>rait No.</u> | OTHERS | Description | <u>raitino.</u> | |
| COILS AND FIL | <u>.IERS</u> | L CVA DOO 10500 | | 0P CONNECTOR | AI/N41004 | |
| L6000 F6000 CHIP FEI | | LCYAR82J2520 VTF1091 | | | AKM1201 | |
| | | | | N4008,CN4010 | AKM1233 | |
| L6001,L6100,L61 | | XTH1001 | | 2P FFC CONNECTOR | AI/A4 000 | |
| CHIP INL | DUCTOR (33UH) | | | 0P CONNECTOR | AKM1236 | |
| | | | CN4007,CI | | AKM1274 | |
| CAPACITORS | | | ŀ | PH CONNECTOR 3P | | |
| C6027 | | CCSRCH101J50 | ON 4000 F | NI COMMECTOR OR | ALCA 44 077 | |
| C6010 | | CCSRCH331J50 | | PH CONNECTOR 6P | AKM1277 | |
| C6004 | | CEHVKW100M50 | CN4005 4 | 0P CONNECTOR | AKM1303 | |
| | 036,C6042,C6044 | CEHVKW101M6R3 | | | | |
| C6031 | | CEHVKW2R2M50 | IDEO DI O | 01/7 | | |
| | | | [REG BLO | _ | | |
| C6000,C6026,C6 | | CEHVKW331M6R3 | SEMICON | <u>DUCTORS</u> | | |
| | 013-C6015,C6019 | CEHVKW470M16 | IC4210,IC4 | 212 | BD6522F | |
| C6023,C6100 | | CEHVKW470M16 | IC4208,IC4 | 211 | MM1661JH | |
| C6022 | | CKSRYB105K10 | IC4202 | | NCP1117ST15 | |
| C6003,C6005,C6 | 006,C6012,C6018 | CKSRYF104Z16 | IC4209 | | NCP1117ST18 | |
| | | | IC4201 | | PQ025ENA1ZPH | |
| | 025,C6029,C6030 | CKSRYF104Z16 | | | | |
| C6033,C6038,C6 | 102,C6200 | CKSRYF104Z16 | IC4204,IC4 | 205 | PQ033ENA1ZPH | |
| C6002,C6035 | | CKSRYF223Z50 | IC4206 | | PQ050DNA1ZPH | |
| C6008,C6016 | | CKSRYF474Z16 | IC4203 | | PQ090DNA1ZPH | |
| | | | Q4201,Q42 | 203 | DTC124EUA | |
| RESISTORS | | | | 206,D4208,D4209,D4211 | 1SS355 | |
| R6031 | | RAB4C221J | | -, -, -, | | |
| R6012-R6014 | | RAB4C2R2J | COILS AN | D FILTERS | | |
| R6204,R6205 | | RAB4CQ101J | | 2 INDUCTOR | BTH1111 | |
| Other Resistors | | RS1/16S###J | | 06 CHIP FERRITE BEAD | | |
| | | | | 05,F4207 EMI FILTER | CCG1162 | |
| THERS | | | <u>::</u> 11 4201-1 42 | 05,1 4207 LIVII I ILI LIT | 0001102 | |
| CN6003 50P CC | MINIECTOR | AKM1236 | CADACITO | NDC | | |
| | | | CAPACITO | | 1007010 | |
| CN6000 PHP C | JINNECTOR 12P | AKM1298 | | 06,C4209,C4215,C4218 | ACG7046 | |
| | | | (10/6.3V) | | | |
| DO 04 DD DI 0 | 01/7 | | | 33,C4235,C4240,C4250 | ACG7046 | |
| PC CARD BLO | - | | (10/6.3V) | | | |
| SEMICONDUC' | <u>rors</u> | | | 57,C4260,C4263 | ACG7046 | |
| IC3002 | | XYW1005 | (10/6.3V) | | | |
| | | | 0.4040./404 | NIE (4.0) 0 | 40114004 | |
| <u>OTHERS</u> | | | C4213 (100 | , | ACH1394 | |
| 16-18 SCREW | | ABZ30P060FTC | C4210,C42 | 44,C4269 | ACH1429 | |
| 11 PCMCIA EJE | CTOR | ANG2673 | C4273 | | CCSSCH101J50 | |
| 12-15 SCREW | | PMZ20P100FNI | , | 16,C4219,C4221,C4222 | CEHVKW101M6R3 | |
| 9 TOP CAN | | XNG1002 | C4224,C42 | 28,C4238,C4264,C4267 | CEHVKW101M6R3 | |
| | | | | | | |
| | | | C4226 | | CEHVKW220M16 | |
| | | | C4214 | | CKSRYB104K16 | |
| IR MAIN AS | CV. | | C4203,C42 | , | CKSRYB105K10 | |
| | 31 | | C4229,C42 | - / | CKSSYB104K10 | |
| <u> THERS</u> | | | C4232,C42 | 34 | CKSSYB471K50 | |
| FRONT END (EU |) | AXF1149 | | | | |
| DD CON UNIT | | AXY1117 | | 04,C4207,C4212,C4227 | CKSSYF104Z16 | |
| | | | | 51,C4261,C4262,C4268 | CKSSYF104Z16 | |
| | | | C4211,C42 | 25,C4256 | DCH1165 | |
| BOARD IF BLC | CK] | | | | | |
| SEMICONDUC [*] | - | | RESISTOR | <u>rs</u> | | |
| Q4003,Q4004 | | 2SA1586 | All Resistor | | RS1/16S###J | |
| Q4003,Q4004 Q4001 | | DTA124EUA | | | | |
| Q4001 Q4002 | | TPC6104 | | | | |
| D4001-D4005 | | 1SS355 | [TUNER BI | LOCK1 | | |
| 2 .001 D-000 | | .0000 | SEMICON | _ | | |
| CAPACITORS | | | IC4401 | 20010110 | MCD24170 | |
| | | CKCDVD10EK10 | | | MSP3417G | |
| C4002 | | CKSRYB105K10 | Q4404 | 100 | 2SA1586 | |
| C4003,C4004 | | CKSSYB104K10 | Q4401,Q44 | 102 | 2SC4116 | |
| | | | Q4414 | 140.04445 | DTA124EUA | |
| RESISTORS | | | Q4410,Q44 | 113,Q4415 | DTC124EUA | |
| <u>ILOIOTOTIO</u> | | RS1/10S0R0J | | | | |
| R4021-R4023 | | RS2LMF8R2J | | | | |
| | | | | | | |
| R4021-R4023 | | RS1/16S###J | | | | |

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| | Mark No. | Description | Part No. | Mark No. | Description | Part No. |
|---|------------------------------|--|-------------------------------|------------------|--------------------------------|------------------------------|
| | Q4407,Q4408 | • | HN1A01FU | COILS AND | FILTERS | |
| | Q4405 | | HN1B04FU | L4602,L4604, | | LCTAW1R0J2520 |
| | Q4409 | | HN1C01FU | L4611,L4612 | L 1000,L 1000 | LCTAW1R0J2520 |
| Α | D4401 | | UDZS33(B) | L4601,L4603, | L4605.L4607 | LCTAW560J2520 |
| | D4403 | | UDZS8R2(B) | L4609,L4610 | , | LCTAW560J2520 |
| | COILS AND F | FILTERS | | SWITCHES | AND RELAYS | |
| | L4401-L4403 | | BTH1119 | S4601 | | ASH1029 |
| | L4405,L4406 | | LCTAW150J2520 | 0.00. | | 7.0020 |
| | L4407 | | LCTAW4R7J2520 | CAPACITOR | S | |
| _ | L4404 | | LCTAW8R2J2520 | C4601,C4605 | 5,C4620 (10/6.3V) | ACG7046 |
| | F4401,F4402 | FERRITE BEAD | VTF1080 | | ,C4636 (10/6.3V) | ACG7046 |
| | 0.4.0.4.0.17.0.0.0 | | | C4662 (100U) | F/16V) | ACH1394 |
| | CAPACITORS | | 100=010 | | ,C4617,C4619,C4624 | CCG1205 |
| | | C4415 (10/6.3V) | ACG7046 | C4628,C4643 | ,C4649,C4661 | CCG1205 |
| В | C4424 (3.3UF/ | C4459 (10/6.3V) | ACG7046 ACH1385 | 0 | 0.4000 | 05114747444 |
| | C4449 | 30V) | CCSRCH680J50 | C4602,C4623 | | CEHAT471M10 |
| | C4442 | | CCSRCJ3R0C50 | · | ,C4609,C4612 | CKSRYB105K10 CKSRYB105K10 |
| | 04442 | | 00011000110000 | | 3,C4626,C4629 3,C4641,C4642 | CKSRYB105K10 |
| | C4417,C4418 | | CCSSCH100D50 | | 5,C4650,C4652-C4654 | CKSRYB105K10 |
| | C4431 | | CCSSCH101J50 | 04040,04040 | ,04000,04002 04004 | ONOTTIBIOONTO |
| | C4450 | | CCSSCH121J50 | C4644 | | CKSRYB224K10 |
| _ | C4456 | | CCSSCH181J50 | | ,C4627,C4630 | CKSSYB102K50 |
| | C4448 | | CCSSCH470J50 | C4647,C4648 | | CKSSYB102K50 |
| | | | | |) | CKSSYB102K50 |
| | C4428,C4443 | | CCSSCH560J50 | C4604,C4614 | ,C4622,C4637,C4651 | CKSSYF104Z16 |
| | C4441 | | CCSSCH5R0D50 | | | |
| С | C4409,C4423 C4421 | | CEHVKW100M16 | C4603,C4625 | ,C4638 | DCH1165 |
| | C4421 C4422 | | CEHVKW101M6R3 CEHVKW470M16 | | | |
| | 04422 | | OLITVIC V 47 OIVITO | RESISTORS | | |
| | C4420 | | CKSRYB332K50 | R4608,R4670 | • | RS1/10S121J |
| | C4401,C4411,0 | C4413 | CKSRYF104Z50 | · · | ,R4645,R4658,R4686 | RS1/10S151J |
| | , , | C4410,C4430,C4440 | CKSSYB102K50 | R4734,R4735 | 2,R4643,R4675,R4681 | RS1/10S151J RS1/16S75R0F |
| | C4444,C4455,0 | C4461 | CKSSYB102K50 | R4715-R4717 | | RS1/16S75R0F |
| | C4408,C4439,0 | C4446 | CKSSYB103K16 | 114713-114717 | ,114733 | 1131/103/31101 |
| | | | | Other Resisto | rs | RS1/16S###J |
| | C4438,C4454 | 04405 04400 04400 | CKSSYB472K25 | | | |
| | | C4425,C4426,C4432 C4447,C4451,C4460 | CKSSYF104Z16 CKSSYF104Z16 | OTHERS | | |
| | C4434,C4435,0 | C4447,C4451,C4460 | CKSSYF104Z16 | JA4601 RGE | CONNECTOR (DUAL) | AKP1265 |
| D | C4414,C4437,0 | C4445 | DCH1165 | JA4602 RGE | CONNECTOR | AKP1266 |
| | | | | | | |
| | <u>RESISTORS</u> | | | [AV SW BLO | CK1 | |
| | All Resistors | | RS1/16S###J | SEMICONDU | _ | |
| | OTHERO | | | IC4807 | <u> </u> | BH3544F |
| | <u>OTHERS</u> | | | IC4805 | | NJM12904V |
| | X4401 CRYS | TAL (18.432MHz) | ASS1196 | IC4806 | | R2S11001FT |
| | | | | IC4804 | | R2S11002AFT |
| | [AV IO BLOCK | (1 | | IC4809 | | TC7WH123FU |
| | - | - | | | | |
| | SEMICONDU | | 0044500 | · | 2,Q4804-Q4806,Q4809 | 2SA1586 |
| Ε | Q4614,Q4615, | | 2SA1586 | · · |),Q4822,Q4823 | 2SA1586 |
| | Q4641,Q4642, Q4602-Q4605, | | 2SA1586 2SC4116 | • | -Q4813,Q4817,Q4819 | 2SC4116 |
| | | Q4622-Q4624,Q4629 | 2SC4116 | Q4821 | | 2SC4116 |
| | Q4632-Q4637, | · · | 2SC4116 | Q4814 | | DTA124EUA |
| | , | | | Q4815 | | DTC124EUA |
| _ | Q4611,Q4612, | Q4640 | 2SD2114K | Q4807 | | HN1B04FU |
| | | Q4621,Q4627,Q4631 | DTA124EUA | D4802,D4806 | ; | 1SS301 |
| | Q4610 | 0.4000 | DTA143EUA | D4801 | | 1SS355 |
| | Q4613,Q4617, | | DTC124EUA | | | |
| | Q4601,Q4609, | Q4625,Q4630,Q4638 | HN1A01FU | CAPACITOR | <u>S</u> | |
| | Q4644 | | HN1C01FU | C4916 (4.7U/ | | ACG1122 |
| _ | | D4611,D4612,D4615 | 1SS301 | | 5,C4871 (10/6.3V) | ACG7046 |
| F | D4602,D4607,I | D-1011,D-1012,D-1013 | 1SS301 | | i,C4923 (10/6.3V) | ACG7046 |
| | D4606,D4626 | | 1SS355 | C4877,C4880 | 1 | CCSRCH181J50 |
| | | | | C4859 | | CCSRCH331J50 |
| | | | | | | |
| | 20 | | | | | |

PDP-R06XE

| | 5 | 6 | | 7 | 8 | - |
|-----------------------|---------------------|--------------------------------------|----------------------|---------------------|-------------------|-----|
| Mark No. | <u>Description</u> | Part No. | Mark No. | Description | Part No. | |
| C4861 | • | CCSRCH680J50 | D5203 | • | 1SS355 | |
| C4885,C488 | 8 | CCSRCH681J50 | D5201 | | SML-311UT | |
| C4822,C486 | | CEHVKW101M6R3 | | | | |
| C4898 | _ | CEHVKW470M6R3 | CAPACITOR | 35 | | Α |
| C4802,C480 | 5,C4806,C4808 | CKSRYB105K10 | C5235 | <u></u> | CCSRCH221J50 | , , |
| • | , | | C5244,C524 | 5 | CCSSCH120J50 | |
| C4813,C481 | 4,C4820,C4833,C4834 | CKSRYB105K10 | | 8,C5237,C5239-C5243 | CCSSCH470J50 | |
| C4836,C483 | 8-C4841,C4847,C4848 | CKSRYB105K10 | C5246-C524 | · · | CCSSCH470J50 | |
| C4850,C485 | 1,C4878,C4879,C4889 | CKSRYB105K10 | C5238 | | CEHVKW100M35 | |
| C4894,C489 | 5,C4899-C4905,C4922 | CKSRYB105K10 | 00200 | | 02 | _ |
| C4837 | | CKSRYB474K10 | C5201 | | CEHVKW101M6R3 | |
| | | | C5261-C526 | 3 | CKSSYB102K50 | |
| C4853-C485 | 8,C4860,C4865 | CKSSYB103K16 | C5216,C523 | | CKSSYB103K16 | |
| C4869,C487 | 0,C4890-C4893 | CKSSYB103K16 | C5215 | | CKSSYB472K25 | |
| C4807,C480 | | CKSSYB104K10 | C5253 | | CKSSYF103Z50 | |
| | 9,C4845,C4846,C4864 | CKSSYF104Z16 | | | | |
| C4873,C488 | 1,C4884,C4886,C4887 | CKSSYF104Z16 | C5202-C521 | 4,C5219,C5222-C5232 | CKSSYF104Z16 | В |
| | | | C5234,C525 | 2 | CKSSYF104Z16 | |
| | 1,C4924,C4925 | CKSSYF104Z16 | C5236 | | DCH1165 | |
| C4844,C486 | 3,C4866,C4872,C4876 | DCH1165 | | | | |
| C4882,C488 | 3 | DCH1165 | RESISTORS | 3 | | |
| | | | R5262.R526 | | ACN1248 | |
| RESISTORS | <u>S</u> | | R5205,R521 | | RAB4CQ101J | _ |
| R4975,R499 | | RD1/2LMF120J | R5283 | • | RS1/16S1001F | |
| R4784,R478 | | RS1/16S1800F | R5282 | | RS1/16S4701F | |
| , | 7,R4792,R4794,R4796 | RS1/16S5600F | R5273 | | RS1/16S8201F | |
| R4791,R479 | | RS1/16S75R0F | 110270 | | 1101/10002011 | |
| | 0,R4944,R4985 | RS1/16SS3301F | Other Resisto | ore | RS1/16S###J | |
| | -, - , | | Other resist | 010 | 1101/100###0 | |
| Other Resisto | ors | RS1/16S###J | OTHERS | | | С |
| | | | | P CONNECTOR | AKM1201 | |
| | | | K5201,K5202 | | | |
| IF UCOM B | LOCK1 | | , | | AKX9002 | |
| SEMICOND | - | | X5201 GEH | RAMIC RESONATOR | ASS1178 | |
| IC5002 | octons | LID64F2694FB | | | | |
| | | HD64F3684FP | ITEVT HOO | M DI OOKI | | |
| IC5003 | | PST9230N | [TEXT UCO | | | - |
| IC5001 | | TC74VHC08FTS1 | <u>SEMICOND</u> | <u>UCTORS</u> | | |
| IC5004 | | TC7W126FU | IC5403 | | K4S641632H-TC75 | |
| Q5005 | | DTA124EUA | IC5404 | | S29AL016D70TFI010 | |
| 05001 | | DTC104FIIA | IC5405 | | SDA6000 | |
| Q5001 | | DTC124EUA | IC5407 | | TC74LCX125FT | |
| A DA OITO | 20 | | IC5402 | | TC7SH04FUS1 | D |
| CAPACITOR | | 0000011100150 | | | | |
| C5007,C500 | 8 | CCSSCH180J50 | IC5406 | | TC7W126FU | |
| C5001 | | CEHVKW101M6R3 | Q5401,Q540 | 6 | DTA124EUA | |
| C5010 | F 05000 05040 | CKSSYB472K25 | Q5403,Q540 | 7 | DTC124EUA | |
| C5002-C500 | 5,C5009,C5012 | CKSSYF104Z16 | D5404 | | 1SS355 | |
| | _ | | D5401 | | UDZS12(B) | |
| RESISTORS | | | | | | _ |
| | 4,R5007,R5025,R5026 | RAB4CQ103J | D5402 | | UDZS3R0(B) | |
| Other Resisto | ors | RS1/16S###J | D5403 | | UDZS3R9(B) | |
| | | | | | | |
| <u>OTHERS</u> | | | COILS AND | FILTERS | | |
| X5002 CER | RAMIC RESONATOR | ASS1168 | ⚠ F5402,F5403 | B EMI FILTER | CCG1162 | Е |
| X5001 CRY | | ASS1172 | , | | | E |
| | | | CAPACITOR | RS | | |
| | | | | 8,C5453 (10/6.3V) | ACG7046 | |
| MAIN UCO | M BLOCK1 | | C5422,C542 | , | CCSSCH200J50 | |
| SEMICOND | | | C5404 | 0 | CKSSYB102K50 | |
| IC5202 | 0010113 | BR24L64F-W | C5403 | | CKSSYB103K16 | |
| | | | C5445 | | CKSSYB104K10 | |
| IC5206 IC5207 | | MB91305PMC-G-BND MBM29DL162TE70TN | 00 170 | | 5.1551B101IN10 | |
| IC5207 IC5210 | | MBM29DL162TE70TN MM1522XU | C5405 C540 | 6,C5408,C5410,C5413 | CKSSYF104Z16 | |
| | | | , | 8,C5420,C5425,C5427 | CKSSYF104Z16 | |
| IC5209 | | PQ200WNA1ZPH | | 1,C5434,C5435,C5440 | CKSSYF104Z16 | |
| IC5203 | | PST3628UR | | 6,C5449,C5451,C5454 | CKSSYF104Z16 | |
| | 04 | | , | 8,C5460,C5476 | CKSSYF104Z16 | F |
| IC5201,IC520 Q5202 | 04 | TC74VHC125FTS1 2SJ461A | 30-30,0043 | 5,55 155,55715 | 51.5511 10±210 | Г |
| | | 2SJ461A DTC124EUA | | | | |
| Q5204 Q5201 | | | | | | |
| Q5201 | | SM6K2 | | | | |
| | | | DD DOCYE | | | 29 |
| | | P | DP-R06XE | _ | | |

| Mark No. Description RESISTORS | Part No. | Mark No. Description C6211,C6212,C6215-C6217 | Part No. CKSSYF104Z16 |
|-------------------------------------|------------------------------|--|--------------------------|
| R5409 | ACN1251 | C6222-C6224 | CKSSYF104Z16 |
| | | 00222 00224 | 0110011104210 |
| R5404,R5428,R5429,R5434,R5435 | BCN1067 | | |
| R5439,R5457,R5476 | RAB4CQ103J | RESISTORS | |
| R5432,R5460 | RAB4CQ680J | R6213,R6218,R6223 | BCN1067 |
| , | | | |
| Other Resistors | RS1/16S###J | R6202 | RS1/16SS2701F |
| | | Other Resistors | RS1/16S###J |
| OTHERS | | | |
| X5401 CRYSTAL | ASS1193 | | |
| | | [HDMI BLOCK] | |
| | | SEMICONDUCTORS | |
| [VDEC BLOCK] | | • | DD04L00ELIM |
| | | IC6402,IC6403 | BR24L02FJ-W |
| SEMICONDUCTORS | | IC6405 | PCM1754DBQ |
| IC6002 | K4S161622H-TC60 | IC6404 | SII9021CTU |
| | | Q6416,Q6417 | 2SA1586 |
| IC6001 | TVP5150AM1PBS | · | |
| IC6003 | UPD64015AGM-UEU | Q6412,Q6414 | DTA124EUA |
| Q6002 | DTA124EUA | | |
| Q0002 | D IT (IZ=ZOT | Q6413,Q6415 | DTC124EUA |
| | | · · · · · · · · · · · · · · · · · · · | |
| COILS AND FILTERS | | Q6402,Q6405 | HN1K02FU |
| ⚠ F6001,F6002 EMI FILTER | CCG1162 | Q6403,Q6404 | RN1902 |
| | | D6404,D6408 | 1SS301 |
| | CCG1162 | , | |
| | | D6403,D6407 | UDZS6R8(B) |
| CAPACITORS | | 00110 4115 511 555 | |
| C6056,C6088 (10/6.3V) | ACG7046 | COILS AND FILTERS | |
| | | ↑ F6401 EMI FILTER | CCG1162 |
| C6059,C6060 | CCSSCH100D50 | | 3031102 |
| C6078,C6083 | CCSSCH8R0D50 | | |
| C6048-C6050 | CKSRYB105K10 | <u>CAPACITORS</u> | |
| | | C6491 (10/6.3V) | ACG7046 |
| C6062,C6069,C6070,C6074,C6080 | CKSSYB103K16 | | |
| | | C6401,C6403,C6405,C6407,C6409 | CCSSCH101J50 |
| C6046,C6051,C6052,C6054,C6058 | CKSSYB104K10 | C6411,C6419,C6426,C6428,C6430 | CCSSCH101J50 |
| | | C6432,C6434,C6435,C6438,C6440 | CCSSCH101J50 |
| C6063,C6064,C6066,C6067 | CKSSYB104K10 | | |
| C6072,C6073,C6075-C6077 | CKSSYB104K10 | C6442,C6444,C6446,C6448,C6449 | CCSSCH101J50 |
| C6081,C6082,C6084,C6085 | CKSSYB104K10 | | |
| C6001-C6008,C6012-C6028 | CKSSYF104Z16 | C6454,C6456,C6459,C6464,C6466 | CCSSCH101J50 |
| 33301 33300,33312 33020 | 5 | C6468,C6470,C6472,C6474,C6476 | CCSSCH101J50 |
| | | | |
| C6031-C6045,C6047,C6053,C6055 | CKSSYF104Z16 | C6478,C6480,C6482 | CCSSCH101J50 |
| C6061,C6065,C6068,C6071,C6079 | CKSSYF104Z16 | C6462,C6463 | CCSSCH120J50 |
| C6090,C6091 | CKSSYF104Z16 | C6425,C6484 | CEHVKW220M6 |
| | | | |
| RESISTORS | | C6402,C6404,C6406,C6408,C6410 | CKSSYF104Z16 |
| | 1014040 | C6412,C6414,C6416,C6418 | CKSSYF104Z16 |
| R6010,R6062,R6068,R6072 | ACN1246 | | |
| R6065,R6073 | BCN1067 | C6420-C6424,C6427,C6429,C6431 | CKSSYF104Z16 |
| R6007,R6023,R6030,R6071 | RAB4CQ220J | C6433,C6436,C6437,C6439,C6441 | CKSSYF104Z16 |
| | | C6443.C6445.C6447.C6450-C6453 | CKSSYF104Z16 |
| R6063 | RS1/16SS1001D | 22.12,22.13,23.11,00100 00100 | |
| R6038,R6039,R6049 | RS1/16SS2000F | 00.455 00.555 00.555 | 01/06: /= : : := |
| | | C6455,C6457,C6458,C6460,C6461 | CKSSYF104Z16 |
| DC0E4 | DC1/16CC0001D | C6465,C6467,C6469,C6471,C6473 | CKSSYF104Z16 |
| R6054 | RS1/16SS2201D | C6475,C6477,C6479,C6481,C6483 | CKSSYF104Z16 |
| R6052 | RS1/16SS6200D | | |
| Other Resistors | RS1/16S###J | C6490 | CKSSYF104Z16 |
| | | | |
| OTHERS | | <u>RESISTORS</u> | |
| | ACC1100 | R6418,R6419,R6421 | ACN1251 |
| X6001 CRYSTAL | ASS1189 | R6414 | RAB4CQ100J |
| X6002 CRYSTAL | ASS1191 | | |
| | | R6465 | RAB4CQ103J |
| | | R6438 | RAB4CQ470J |
| IADO DI OCICI | | R6416 | RAB4CQ680J |
| [ADC BLOCK] | | | 10 0000 |
| SEMICONDUCTORS | | Other Resistors | RS1/16S###J |
| IC6201 | AD9985KSTZ-110 | Other 1169191019 | 1101/100###J |
| .55201 | | OTHERS | |
| COIL & AND EILTERS | | <u>OTHERS</u> | |
| COILS AND FILTERS | | JA6401,JA6402 HDMI CONNECTOR | AKP1278 |
| | CCG1162 | X6401 CRYSTAL | ASS1192 |
| | | | = = · · · = = |
| <u>CAPACITORS</u> | | | |
| | CKSSYB104K10 | IDSEL BLOCKI | |
| C6205 C6209 | | [DSEL BLOCK] | |
| C6205,C6209 | CKSSYB473K16 | SEMICONDUCTORS | |
| C6207,C6210,C6218 | 01/00104/01/10 | | |
| • | CKSSYB822K16 | 100001 | DDCEOO A |
| C6207,C6210,C6218 C6202 | CKSSYB822K16 | IC6601 | PD6523A |
| C6207,C6210,C6218 C6202 C6201 | CKSSYB822K16 CKSSYB823K10 | IC6601 IC6602 | PD6523A TC74LCX125FT |
| C6207,C6210,C6218 C6202 | CKSSYB822K16 | | |

PDP-R06XE

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| 5 | 6 | - | 7 | | 8 | |
|--|------------------------------|-----------------------------|--------------------|---|------------------------------|----|
| Mark No. Description | Part No. | Mark No. | | <u>Description</u> | Part No. | |
| COILS AND FILTERS | | RESIST | | | | |
| 1 F6604 CHIP FERRITE BEAD | ATX1058 | | | 24,R7032,R7036 | ACN1246 | |
| | CCG1162 | R7062-F | | | ACN1251 | Δ |
| NADACITORS | | R7015,F | R7023 R7018,R70 | 70 | RAB4CQ101J | P |
| CAPACITORS C6632 (10/6 2)/) | ACG7046 | H7016,F R7060 | 1/U10,H/U | 70 | RAB4CQ103J RAB4CQ680J | |
| C6632 (10/6.3V) C6604 | ACG7046 CCSRCH221J50 | 117000 | | | 11/10-70-00000 | |
| C6631 | CKSSYB102K50 | Other R | esistors | | RS1/16S###J | |
| C6601-C6603,C6607-C6610 | CKSSYF104Z16 | | | | | |
| C6613-C6617,C6619,C6621-C6623 | CKSSYF104Z16 | | | | | |
| | | [MR IF B | _ | | | _ |
| C6625-C6627,C6629,C6630 | CKSSYF104Z16 | SEMICO | NDUCT | <u>ORS</u> | | |
| RESISTORS | | IC7202 | 107000 | | SII170BCLG64 | |
| R6603-R6605 | ACN1251 | IC7201, Q7206 | 10/203 | | TC74VHC08FTS1 2SA1586 | |
| R6611,R6614,R6618 | BCN1071 | | Q7207,Q72 | 210 | DTA124EUA | |
| R6613,R6620 | RAB4CQ101J | Q7211 | | | DTC124EUA | E |
| Other Resistors | RS1/16S###J | ·· | | | · | |
| | | Q7209 | | | HN1C01FU | |
| <u>OTHERS</u> | | Q7201 | | | RN1902 | |
| X6601 CRYSTAL | ASS1194 | D7202-I | D7206 | | 1SS355 | |
| | | COLLE | / VID Eii . | TEDO | | I |
| D DI OCKI | | <u>COILS A</u> ∴ F7204-F | | | ATF1209 | |
| P BLOCK] | | | - | RITE BEAD | BTX1042 | |
| EMICONDUCTORS | V40040000LT000 | - | - | 08 EMI FILTER | CCG1162 | |
| IC6801,IC6802 IC6803 | K4S643232H-TC60 PE5504B | | ,- · | · · · · · · · · · · | | |
| 100000 | F E3304D | CAPACI | TORS | | | |
| OILS AND FILTERS | | | | 08 (10/6.3V) | ACG7046 | C |
| L6801-L6804 CHIP FERRITE BEAL | BTX1042 | C7226,0 | | | CCSSCH100D50 | |
| | | | | 11,C7213,C7214 | CCSSCH101J50 | |
| CAPACITORS | | C7216,0 C7223 | C7217,C72 | 19,07221 | CCSSCH101J50 CKSSYB102K50 | |
| C6801 (10/6.3V) | ACG7046 | 0/223 | | | ONOO 10 102NOU | |
| C6863 | CKSSYB102K50 | C7209.0 | C7215,C72 | 20,C7225,C7228 | CKSSYB471K50 | _ |
| C6802,C6804,C6807-C6809,C6813 | CKSSYF104Z16 | | | 06,C7210,C7212 | CKSSYF104Z16 | |
| C6815-C6817,C6821,C6824-C6828 C6830,C6831,C6834,C6835 | CKSSYF104Z16 CKSSYF104Z16 | C7218,0 | 27224 | | CKSSYF104Z16 | |
| 00000,00001,00004,00000 | 01.0011 10 1 210 | DE0:0- | 000 | | | |
| C6839-C6862 | CKSSYF104Z16 | RESIST | UKS | | DAD400404 ! | |
| | | R7215 R7216 | | | RAB4CQ101J RS1/16S5100F | |
| RESISTORS | | Other R | esistors | | RS1/16S5100F RS1/16S###J | |
| R6833,R6838 | ACN1246 | 3000 | 20.01010 | | | |
| R6841,R6844-R6847 | ACN1251 | OTHERS | <u>S</u> | | | |
| R6813,R6814,R6816,R6820,R6821 R6823,R6825,R6827,R6828 | BCN1067 BCN1067 | | 20P SO | CKET | AKP1226 | |
| R6818 | BCN1067 BCN1071 | CN7202 | 24P DVI | SOCKET | AKP1250 | |
| | 20.1.071 | | | | | _ |
| R6832 | RAB4CQ101J | | | | | |
| R6817 | RAB4CQ470J | DEAD | IO 400 | ·V | | |
| Other Resistors | RS1/16S###J | REAR | | | | |
| | | COILS A | | I EKS | LOTALISON INTER | |
| MULTI BLOCK] | | L7401,L | .7402 | | LCTAW560J2520 | |
| SEMICONDUCTORS | | CAPACI | TORS | | | E |
| IC7001 | PEG121B | C7404,0 | | | CKSRYB102K50 | |
| IC7001 IC7002 | S29JL032H70TFI21 | C7404,0 | | | CKSRYB102K50 | |
| IC7004 | TC74VHC08FTS1 | 37 701 (| | | 5.15.1121001110 | |
| | - | RESIST | <u>ORS</u> | | | |
| OILS AND FILTERS | | R7401-F | | | RS1/16S75R0F | _ |
| F7001-F7006 EMI FILTER | CCG1162 | Other R | esistors | | RS1/16S###J | |
| A DA OLTO DO | | AT: :== : | • | | | |
| CAPACITORS | 01/00/75 / 201/5- | OTHERS | | • | ALCDAGG | |
| C7052 | CKSSYB102K50 | | 3P PIN J | | AKB1321 | |
| C7006,C7008,C7010-C7017,C7019 C7021,C7023,C7024,C7026-C7029 | CKSSYF104Z16 CKSSYF104Z16 | | 3P PIN J | - | AKB1328 CKS3826 | |
| C7032-C7034,C7036,C7037 | CKSSYF104Z16 | ON/402 | . JOININE | 0.011 | UN00020 | F |
| C7039-C7042,C7044,C7046-C7048 | CKSSYF104Z16 | | | | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | |
| C7050 | CKSSYF104Z16 | | | | | |
| | | PDP-R06XF | | | | 31 |
| | | FUE-BUDXE | | | | |

PDP-R06XE

| | 1 | 2 | 3 | | 4 |
|---|--|---|---|------------------------------------|--|
| | Mark No. Description | Part No. | Mark No. | Description | Part No. |
| - | SR ASSY | | LED ASSY | | |
| | | | | 07000 | |
| | SEMICONDUCTORS | MANAGOGODINA | SEMICONDUC | CIORS | DT4 40 45114 |
| | IC7601 | MAX3232CPW | Q8003 | | DTA124EUA |
| | IC7603 IC7602 | TC74VHC00FTS1 TC74VHC125FTS1 | Q8004 | | DTC124EUA RN2902 |
| | Q7601,Q7605 | 2SA1586 | Q8002 D8001 | | SML-311DT |
| | Q7603 | 2SC4116 | D8003 | | SML-311UT |
| | 4,000 | 2001110 | 20000 | | OME OTTO |
| | Q7602,Q7604,Q7606 | DTC124EUA | D8004 | | SML310BA1T |
| | D7609-D7612 | 1SS355 | | | |
| | | | SWITCHES A | ND RELAYS | |
| | <u>CAPACITORS</u> | | S8001-S8006 | | ASG1088 |
| | C7608,C7611 | CEHVKW100M16 | | | |
| | C7603-C7607,C7609,C7610 | CKSSYF104Z16 | CAPACITORS | | |
| | DECICTORS | | C8005,C8006 | | CCSRCH101J50 |
| | RESISTORS | DC4/400###1 | C8001,C8002 | | CKSSYF104Z16 |
| | All Resistors | RS1/16S###J | DECICTORS | | |
| | OTHERS | | RESISTORS | | DC4/4CC###1 |
| | JA7603 4P MINI JACK | AKN1073 | All Resistors | | RS1/16S###J |
| | CN7602 9P D-SUB SOCKET | AKN1073 AKP1213 | OTHERS | | |
| | CN7601 CONNECTOR | CKS3826 | CN8001 CONI | NECTOR | CKS3826 |
| | JA7602 REMOTE CONTROL JACK | | CINOUUT COINI | NECTOR | UN33826 |
| | | | | | |
| | | | | | |
| | | | POWER SU | PPLY UNIT | |
| | FRONT ASSY | | | Unit has no service pa | rt. |
| | SEMICONDUCTORS | | 2.1.2.1.001121 | oo 11100 pa | - |
| | IC7801 | BR24C21FJ | | | |
| | IC7802 | TC74VHC08FTS1 | | | |
| | Q7806-Q7808 | 2SC4116 | | | |
| | Q7804,Q7805 | DTC124EUA | | | |
| | • | | _ ===================================== | | |
| | D7813 | 1SS301 | ■ FOR PDP- | R06FE | |
| | D7813 | 1SS301 | | | Part No |
| | D7813 D7816-D7818 | 1SS301 1SS302 | Mark No. | Description | Part No. |
| | D7813 D7816-D7818 D7801-D7803 | 1SS301 1SS302 UDZS5R1(B) | Mark No. MR MAIN A | Description | <u>Part No.</u> |
| | D7813 D7816-D7818 | 1SS301 1SS302 | Mark No. | Description | Part No. |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) | Mark No. MR MAIN A | Description | AXF1149 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) | Mark No. MR MAIN A | Description | |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) | Mark No. MR MAIN AS OTHERS FRONT END | Description | AXF1149 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT | Description SSY | AXF1149 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT | Description SSY OCK] | AXF1149 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUCTION | Description SSY OCK] | AXF1149 AXY1117 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUCT Q4003,Q4004 | Description SSY OCK] | AXF1149 AXY1117 2SA1586 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUCT Q4003,Q4004 Q4001 | Description SSY OCK] | AXF1149 AXY1117 2SA1586 DTA124EUA |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUCT Q4003,Q4004 Q4001 Q4002 | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB103K50 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUCT Q4003,Q4004 Q4001 | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUC Q4003,Q4004 Q4001 Q4002 D4001-D4003,E | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB103K50 CKSRYB105K10 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB103K50 | Mark No. MR MAIN AMOTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUC Q4003,Q4004 Q4001 Q4002 D4001-D4003,E CAPACITORS C4002 | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB103K50 CKSRYB105K10 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUC Q4003,Q4004 Q4001 Q4002 D4001-D4003,E CAPACITORS C4002 C4003,C4004 | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 ⚠ C7839,C7840 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUS Q4003,Q4004 Q4001 Q4002 D4001-D4003,D CAPACITORS C4002 C4003,C4004 RESISTORS | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 △ C7839,C7840 C7802,C7820,C7824 C7819,C7835 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB103K50 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 | Mark No. MR MAIN AS OTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUC Q4003,Q4004 Q4001 Q4002 D4001-D4003,E CAPACITORS C4002 C4003,C4004 | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 △ C7839,C7840 C7802,C7824 C7819,C7835 RESISTORS | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB103K50 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 △ C7839,C7840 C7802,C7820,C7824 C7819,C7835 | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB103K50 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 △ C7839,C7840 C7802,C7824 C7819,C7835 RESISTORS | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 ⚠ C7839,C7840 C7802,C7820,C7824 C7819,C7835 RESISTORS R7801,R7803,R7809,R7857-R7859 Other Resistors | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 RS1/16S75R0F | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 △C7839,C7840 C7802,C7820,C7824 C7819,C7835 RESISTORS R7801,R7803,R7809,R7857-R7859 Other Resistors OTHERS | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 RS1/16S75R0F RS1/16S###J | Mark No. MR MAIN AMOTHERS FRONT END DD CON UNIT [BOARD IF BL SEMICONDUC Q4003,Q4004 Q4001 Q4002 D4001-D4003,D CAPACITORS C4002 C4003,C4004 RESISTORS R4021-R4023 R4007 Other Resistors OTHERS CN4008,CN401 12P F | Description SSY OCK] CTORS 04005 | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J RS1/16S###J |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 ⚠ C7839,C7840 C7802,C7820,C7824 C7819,C7835 RESISTORS R7801,R7803,R7809,R7857-R7859 Other Resistors OTHERS JA7803 PIN JACK 3P | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 RS1/16S75R0F RS1/16S###J AKB1303 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS 04005 | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J RS1/16S###J AKM1233 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 △ C7839,C7840 C7802,C7824 C7819,C7835 RESISTORS R7801,R7803,R7809,R7857-R7859 Other Resistors OTHERS JA7803 PIN JACK 3P CN7803 12P FFC CONNECTOR | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 RS1/16S75R0F RS1/16S###J AKB1303 AKM1233 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS 04005 | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J RS1/16S###J |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 ⚠ C7839,C7840 C7802,C7824 C7819,C7835 RESISTORS R7801,R7803,R7809,R7857-R7859 Other Resistors OTHERS JA7803 PIN JACK 3P CN7804 50P CONNECTOR CN7804 50P CONNECTOR | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 RS1/16S75R0F RS1/16S###J AKB1303 AKM1233 AKM1233 AKM1236 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS 04005 | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J RS1/16S###J AKM1233 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 △ C7839,C7840 C7802,C7824 C7819,C7835 RESISTORS R7801,R7803,R7809,R7857-R7859 Other Resistors OTHERS JA7803 PIN JACK 3P CN7804 50P CONNECTOR CN7804 50P CONNECTOR CN7801 MINI JACK | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 RS1/16S75R0F RS1/16S###J AKB1303 AKM1233 AKM1236 AKN1028 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS 04005 | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J RS1/16S###J AKM1233 |
| | D7813 D7816-D7818 D7801-D7803 D7809-D7812,D7814,D7815 D7804,D7808 COILS AND FILTERS L7801,L7802 L7803,L7804 CAPACITORS C7821,C7827,C7829,C7830 (10/6.3 C7822,C7823 C7817,C7818 C7803,C7804 C7805,C7808,C7809,C7813 C7831,C7832,C7834 C7801 ⚠ C7839,C7840 C7802,C7824 C7819,C7835 RESISTORS R7801,R7803,R7809,R7857-R7859 Other Resistors OTHERS JA7803 PIN JACK 3P CN7804 50P CONNECTOR CN7804 50P CONNECTOR | 1SS301 1SS302 UDZS5R1(B) UDZS5R6(B) UDZS9R1(B) LCTAW1R0J2520 LCTAW560J2520 V) ACG7046 CCSRCH220J50 CEHAT471M10 CKSRYB105K10 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50 CKSSYF104Z16 DCH1165 RS1/16S75R0F RS1/16S###J AKB1303 AKM1233 AKM1233 AKM1236 | Mark No. MR MAIN AMAIN | Description SSY OCK] CTORS 04005 | AXF1149 AXY1117 2SA1586 DTA124EUA TPC6104 1SS355 CKSRYB105K10 CKSSYB104K10 RS1/10S0R0J RS2LMF8R2J RS1/16S###J AKM1233 |

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| Mark No. Description [RGB BLOCK] SEMICONDUCTORS IC4212 IC4211 IC4202 IC4209 IC4209 IC4201 IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ↑ L4203-L4205 CHIP FERRITE BEAD ↑ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4213 (100UF/16V) C4213 (2220,C4244,C4269 C4273 C4205,C4216,C4219,C4221,C4222 | Part No. BD6522F MM1661JH NCP1117ST15 NCP1117ST18 PQ025ENA1ZPH PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 CCSSCH101J50 | C4416,C4429 C4424 (3.3UF C4449 C4442 C4417,C4418 C4431 C4450 C4456 C4448 C4428,C4443 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4445 C4402,C4405 | ,C4413 ,C4413 ,C4413 ,C4410,C4430,C4440 ,C4446 | Part No. ACG7046 ACG7046 ACG7046 ACH1385 CCSRCH680J50 CCSRCJ3R0C50 CCSSCH100D50 CCSSCH101J50 CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 CKSSYB103K16 | A B |
|---|--|---|--|--|--------|
| SEMICONDUCTORS IC4212 IC4211 IC4202 IC4209 IC4209 IC4201 IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | MM1661JH NCP1117ST15 NCP1117ST18 PQ025ENA1ZPH PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4404,C4407 C4416,C4429 C4416,C4429 C4424 (3.3UF C4449 C4442 C4417,C4418 C4431 C4450 C4456 C4448 C4428,C4443 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4413 ,C4413 ,C4413 ,C4410,C4430,C4440 ,C4446 | ACG7046 ACH1385 CCSRCH680J50 CCSRCJ3R0C50 CCSSCH100D50 CCSSCH101J50 CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4212 IC4211 IC4202 IC4209 IC4209 IC4201 IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | MM1661JH NCP1117ST15 NCP1117ST18 PQ025ENA1ZPH PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4416,C4429 C4424 (3.3UF C4449 C4442 C4417,C4418 C4431 C4450 C4456 C4448 C4428,C4443 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4445 C4402,C4405 | ,C4459 (10/6.3V) ;/50V) ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | ACG7046 ACH1385 CCSRCH680J50 CCSRCJ3R0C50 CCSSCH100D50 CCSSCH101J50 CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4211 IC4202 IC4209 IC4209 IC4201 IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | MM1661JH NCP1117ST15 NCP1117ST18 PQ025ENA1ZPH PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4424 (3.3UF C4449 C4449 C4442 C4417,C4418 C4431 C4450 C4456 C4448 C4448 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C44454 C4402,C4405 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | ACH1385 CCSRCH680J50 CCSRCJ3R0C50 CCSSCH100D50 CCSSCH101J50 CCSSCH121J50 CCSSCH470J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4202 IC4209 IC4209 IC4201 IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR | NCP1117ST15 NCP1117ST18 PQ025ENA1ZPH PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4449 C4442 C44417,C4418 C4431 C4450 C4456 C4448 C4448 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSRCH680J50 CCSRCJ3R0C50 CCSSCH100D50 CCSSCH101J50 CCSSCH121J50 CCSSCH470J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4209 IC4201 IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | NCP1117ST18 PQ025ENA1ZPH PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4442 C4417,C4418 C4431 C4450 C4456 C4448 C4428,C4443 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C44454 C4402,C4405,C4405 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSRCJ3R0C50 CCSSCH100D50 CCSSCH101J50 CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4201 IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | PQ025ENA1ZPH PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4417,C4418 C4431 C4450 C4456 C4448 C4428,C4443 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405,C4405 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH100D50 CCSSCH101J50 CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4204,IC4205 IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR | PQ033ENA1ZPH PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4431 C4450 C4456 C4448 C4448 C4448 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4434 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH101J50 CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR | PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4431 C4450 C4456 C4448 C4448 C4448 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4434 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH101J50 CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4206 IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR | PQ050DNA1ZPH PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4450 C4456 C4448 C4448 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH121J50 CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| IC4203 Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | PQ090DNA1ZPH DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4456 C4448 C4448 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH181J50 CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW470M16 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | В |
| Q4201 D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | DTC124EUA 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4448 C4428,C4443 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405,C4405 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH470J50 CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | |
| D4201-D4206,D4209,D4211 COILS AND FILTERS L4201 INDUCTOR ⚠ L4203-L4205 CHIP FERRITE BEAD ⚠ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | 1SS355 BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4428,C4443 C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405,C4405 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH560J50 CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | |
| COILS AND FILTERS L4201 INDUCTOR ↑ L4203-L4205 CHIP FERRITE BEAD ↑ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | BTH1111 BTX1042 CCG1162 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4441 C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CCSSCH5R0D50 CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | |
| L4201 INDUCTOR | ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4409,C4423 C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CEHVKW100M16 CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | |
| L4201 INDUCTOR | ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4421 C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4413 ,C4410,C4430,C4440 ,C4461 ,C4446 | CEHVKW101M6R3 CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | |
| ↑ L4203-L4205 CHIP FERRITE BEAD ↑ F4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | ACG7046 ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4422 C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4410,C4430,C4440 ,C4461 ,C4446 | CEHVKW470M16 CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | |
| TF4201-F4203,F4205,F4207 EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | ACG7046 ACG7046 ACG7046 ACH1394 ACH1429 | C4420 C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4410,C4430,C4440 ,C4461 ,C4446 | CKSRYB332K50 CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | ı |
| EMI FILTER CAPACITORS C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | ACG7046 ACG7046 ACH1394 ACH1429 | C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4410,C4430,C4440 ,C4461 ,C4446 | CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | • |
| C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 | ACG7046 ACG7046 ACH1394 ACH1429 | C4401,C4411 C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4410,C4430,C4440 ,C4461 ,C4446 | CKSRYF104Z50 CKSSYB102K50 CKSSYB102K50 | • |
| C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 | ACG7046 ACG7046 ACH1394 ACH1429 | C4403,C4406 C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4410,C4430,C4440 ,C4461 ,C4446 | CKSSYB102K50 CKSSYB102K50 | |
| C4201,C4206,C4209,C4215 (10/6.3V) C4220,C4240,C4250,C4253 (10/6.3V) C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 | ACG7046 ACG7046 ACH1394 ACH1429 | C4444,C4455 C4408,C4439 C4438,C4454 C4402,C4405 | ,C4461 ,C4446 | CKSSYB102K50 | |
| C4257,C4260,C4263 (10/6.3V) C4213 (100UF/16V) C4210,C4244,C4269 C4273 | ACG7046 ACH1394 ACH1429 | C4408,C4439 C4438,C4454 C4402,C4405 | ,C4446 | | |
| C4213 (100UF/16V) C4210,C4244,C4269 C4273 | ACH1394 ACH1429 | C4438,C4454 C4402,C4405 | ,- | 01/00/101/00/10 | |
| C4210,C4244,C4269 C4273 | ACH1429 | C4402,C4405 | | | |
| C4273 | | C4402,C4405 | | CKSSYB472K25 | |
| | CCSSCH101.I50 | • | ,C4425,C4426,C4432 | CKSSYF104Z16 | |
| | CCSSCH101.I50 | C4434.C4435 | ,C4447,C4451,C4460 | CKSSYF104Z16 | |
| C4205,C4216,C4219,C4221,C4222 | | C4465 | , , , | CKSSYF104Z16 | |
| | CEHVKW101M6R3 | C4414,C4437 | ,C4445 | DCH1165 | С |
| C4224,C4228,C4238,C4264 | CEHVKW101M6R3 | | | | |
| C4226 | CEHVKW220M16 | RESISTORS | | | |
| C4214 | CKSRYB104K16 | All Resistors | | RS1/16S###J | |
| C4203,C4217,C4223 | CKSRYB105K10 | | | | |
| C4229,C4252 | CKSSYB104K10 | <u>OTHERS</u> | | | _ |
| C4232 | CKSSYB471K50 | X4401 CRYS | STAL (18.432MHz) | ASS1196 | |
| C4204,C4212,C4227,C4251 | CKSSYF104Z16 | | | | |
| | | [AV/10 DI 00 | 1/21 | | |
| C4261,C4262 | CKSSYF104Z16 | [AV IO BLOC | - | | |
| C4211,C4225,C4256 | DCH1165 | SEMICONDU | <u>JCTORS</u> | | |
| DECICTORS | | | 5,Q4626,Q4639 | 2SA1586 | _ |
| RESISTORS | DO4/400/4/4/1 | · · · · · · · · · · · · · · · · · · · | 2,Q4645,Q4646 | 2SA1586 | D |
| All Resistors | RS1/16S###J | | 5,Q4607,Q4608 | 2SC4116 | |
| | | Q4618-Q4620 Q4632-Q4636 |),Q4622-Q4624,Q4629 | 2SC4116 2SC4116 | |
| [TUNER BLOCK] | | Q4032-Q4030 |),Q4043 | 2304110 | |
| SEMICONDUCTORS | | Q4611,Q4612 |) | 2SD2114K | |
| · · · · · · · · · · · · · · · · · · · | MOD04470 | | 5,Q4621,Q4631 | DTA124EUA | |
| IC4401 Q4404 | MSP3417G | Q4610 | | DTA143EUA | _ |
| Q4404 Q4401,Q4402 | 2SA1586 2SC4116 | Q4613,Q4617 | , | DTC124EUA | |
| Q4414 Q4414 | DTA124EUA | Q4601,Q4609 | ,Q4625,Q4630 | HN1A01FU | |
| Q4410,Q4413,Q4415 | DTC124EUA | | | | |
| Q1110,Q1110,Q1110 | 213121237 | Q4644 | | HN1C01FU | |
| Q4407,Q4408 | HN1A01FU | · | ,D4611,D4621 | 1SS301 | Е |
| Q4405 | HN1B04FU | D4606,D4626 | | 1SS355 | _ |
| Q4409 | HN1C01FU | OOU C AND | EU TEDO | | |
| D4401 | UDZS33(B) | COILS AND | | LOTANA LOTA | |
| D4403 | UDZS8R2(B) | L4602,L4604, | L4606,L4608 | LCTAW1R0J2520 | |
| 0011 0 AND =11 T=== | | L4611,L4612 L4601,L4603, | I 4605 I 4607 | LCTAW1R0J2520 LCTAW560J2520 | |
| COILS AND FILTERS | | L4609,L4610 | L+000,L400/ | LCTAW560J2520 LCTAW560J2520 | |
| L4401-L4403 CHIP COIL | BTH1119 | L+003,L+010 | | _O 17 17 4 0 0 0 0 C 0 C 0 | |
| L4405,L4406 | LCTAW150J2520 | SWITCHES | AND RELAYS | | |
| L4407 | LCTAW4R7J2520 | S4601 | | ASH1029 | |
| L4404 F4401,F4402 FERRITE BEAD | LCTAW8R2J2520 VTF1080 | 0.001 | | | |
| 1 7701,1 4402 I LARITE DEAD | V 11 1000 | | | | |
| | | | | | F |

PDP-R06XE

| | Mark No. | Description | Part No. | Mark No. | Description | Part No. |
|---|------------------------------|---------------------------------------|------------------------------|------------------------------|---------------------------------------|-------------------------------|
| | CAPACITORS | S | | C4807,C4809 | | CKSSYB104K10 |
| | | C4620 (10/6.3V) | ACG7046 | C4801,C4819, | C4845,C4846,C4864 | CKSSYF104Z16 |
| | | C4636 (10/6.3V) | ACG7046 | C4873,C4884, | C4886,C4887 | CKSSYF104Z16 |
| Α | C4662 (100UF | | ACH1394 | C4917-C4920, | | CKSSYF104Z16 |
| | C4607,C4611, | C4617,C4619,C4624 | CCG1205 | C4844,C4863, | C4866,C4872,C4876 | DCH1165 |
| | C4628,C4643, | C4649 | CCG1205 | | | |
| | | | | RESISTORS | | |
| | C4602,C4623, | | CEHAT471M10 | R4784,R4786 | D. 4700 D. 470 4 D. 4700 | RS1/16S1800F |
| | C4606,C4608, | | CKSRYB105K10 | | R4792,R4794,R4796 | RS1/16S5600F |
| | C4615,C4616, C4631-C4633, | · · · · · · · · · · · · · · · · · · · | CKSRYB105K10 CKSRYB105K10 | R4791,R4793, R4857-R4860, | | RS1/16S75R0F RS1/16SS3301F |
| | , | C4650,C4652-C4654 | CKSRYB105K10 | Other Resistor | · · · · · · · · · · · · · · · · · · · | RS1/16S###J |
| | 04040,04040, | 04000,04002 04004 | CHOITIBIOGHTO | Other resistor | 5 | 1101/100///// |
| | C4610,C4613, | C4627,C4630 | CKSSYB102K50 | | | |
| | C4647,C4648 | | CKSSYB102K50 | [IF UCOM BL | OCK] | |
| В | | | CKSSYB102K50 | SEMICONDU | ICTORS | |
| ь | | C4622,C4637,C4651 | CKSSYF104Z16 | IC5002 | | HD64F3684FP |
| | C4603,C4625, | C4638 | DCH1165 | IC5003 | | PST9230N |
| | DECICTORS | | | IC5001 | | TC74VHC08FTS1 |
| | RESISTORS | D.4000 | D04/400404 I | IC5004 | | TC7W126FU |
| | R4608,R4670, | | RS1/10S121J | Q5005 | | DTA124EUA |
| _ | R4734,R4735 | R4645,R4658,R4686 | RS1/10S151J RS1/10S151J | 0.500 | | DTG (C)FILE |
| | · | ,R4643,R4675,R4681 | RS1/16S75R0F | Q5001 | | DTC124EUA |
| | R4715-R4717, | | RS1/16S75R0F | CARACITOR | c | |
| | , | | . 10 17 1007 01 101 | CAPACITORS | <u> </u> | 0000011400150 |
| | Other Resistors | S | RS1/16S###J | C5007,C5008 C5001 | | CCSSCH180J50 CEHVKW101M6R3 |
| | | | | C5010 | | CKSSYB472K25 |
| С | <u>OTHERS</u> | | | C5002-C5005, | .C5009.C5012 | CKSSYF104Z16 |
| Ū | | CONNECTOR (DUAL) | AKP1265 | | , , | |
| | JA4602 RGB | CONNECTOR | AKP1266 | RESISTORS | | |
| | | | | R5002,R5004, | R5007,R5025,R5026 | RAB4CQ103J |
| | TAV CW DI O | ℃ L1 | | Other Resistor | S | RS1/16S###J |
| | [AV SW BLOC | - | | | | |
| | SEMICONDU | ICTORS | N. IN 44 000 4) / | <u>OTHERS</u> | | |
| | IC4805 IC4806 | | NJM12904V R2S11001FT | | MIC RESONATOR | ASS1168 |
| | IC4804 | | R2S11001F1 | X5001 CRYS | IAL | ASS1172 |
| | | ,Q4804-Q4806,Q4809 | 2SA1586 | | | |
| | Q4818,Q4820 | • | 2SA1586 | [MAIN UCOM | BI OCKI | |
| | • | | | SEMICONDU | | |
| D | Q4812,Q4813 | | 2SC4116 | | icions | BR24L64F-W |
| | Q4814 | | DTA124EUA | IC5202 IC5206 | | MB91305PMC-G-BND |
| | Q4815 | | DTC124EUA | IC5207 | | MBM29DL162TE70TN |
| | Q4807 | | HN1B04FU | IC5210 | | MM1522XU |
| | D4802 | | 1SS301 | IC5209 | | PQ200WNA1ZPH |
| | D4801 | | 1SS355 | | | |
| _ | | | | IC5203 | | PST3628UR |
| | CAPACITORS | <u>S</u> | | IC5201 Q5202 | | TC74VHC125FTS1 2SJ461A |
| | C4916 (4.7U/1 | 0V) | ACG1122 | Q5202 Q5204 | | DTC124EUA |
| | C4821,C4835, | C4871,C4875 (10/6.3V) | ACG7046 | Q5201 | | SM6K2 |
| | C4877,C4880 | | CCSRCH181J50 | | | |
| Ε | C4859 | | CCSRCH331J50 | D5203 | | 1SS355 |
| | C4861 | | CCSRCH680J50 | D5201 | | SML-311UT |
| | C4885,C4888 | | CCSRCH681J50 | CADACITOD | • | |
| | C4822,C4862 | | CEHVKW101M6R3 | CAPACITORS | <u>5</u> | 0000011004150 |
| | C4802,C4805, | · · · · · · · · · · · · · · · · · · · | CKSRYB105K10 | C5235 C5244,C5245 | | CCSRCH221J50 CCSSCH120J50 |
| | | C4820,C4833,C4834 | CKSRYB105K10 | , | C5237,C5239-C5243 | CCSSCH470J50 |
| | C4836,C4838- | ·C4841,C4847,C4848 | CKSRYB105K10 | C5246-C5249 | | CCSSCH470J50 |
| | C4850,C4851, | C4878 C4879 | CKSRYB105K10 | C5238 | | CEHVKW100M35 |
| | C4899-C4905 | | CKSRYB105K10 | | | |
| | C4837 | | CKSRYB474K10 | C5201 | | CEHVKW101M6R3 |
| | C4853-C4858, | ,C4860,C4865 | CKSSYB103K16 | C5261-C5263 | | CKSSYB102K50 |
| F | C4869,C4870, | C4890-C4893 | CKSSYB103K16 | C5216,C5233 | | CKSSYB103K16 |
| | | | | C5215 C5253 | | CKSSYB472K25 CKSSYF103Z50 |
| | | | | 00200 | | 51.05 IT 100200 |
| | | | | | | |

PDP-R06XE

| Mark No. Description | Part No. | Mark No. Description | Part No. | |
|--|------------------------------|----------------------------------|--------------------------------|----|
| C5202-C5209,C5211-C5214,C5219 | CKSSYF104Z16 | COILS AND FILTERS | | |
| C5222-C5232,C5234,C5252 | CKSSYF104Z16 | <u>↑</u> F6001,F6002,F6010,F6011 | CCG1162 | |
| C5236 | DCH1165 | EMI FILTER | | |
| RESISTORS | | CAPACITORS | | |
| R5262,R5268 | ACN1248 | C6056,C6088 (10/6.3V) | ACG7046 | |
| R5205,R5213 | RAB4CQ101J | C6078,C6083 | CCSSCH8R0D50 | |
| R5283 | RS1/16S1001F | C6062,C6069,C6070,C6074,C6080 | CKSSYB103K16 | |
| R5282 | RS1/16S4701F | C6046,C6058,C6063,C6064 | CKSSYB104K10 | |
| R5273 | RS1/16S8201F | C6066,C6067,C6072,C6073 | CKSSYB104K10 | |
| Other Resistors | RS1/16S###J | C6075-C6077,C6081,C6082 | CKSSYB104K10 | |
| | | C6084,C6085 | CKSSYB104K10 | |
| <u>OTHERS</u> | | C6001-C6008,C6012-C6028 | CKSSYF104Z16 | |
| CN5202 50P CONNECTOR | AKM1201 | C6031-C6045,C6065,C6068,C6071 | CKSSYF104Z16 | |
| K5201,K5202 TEST PIN | AKX9002 | C6079,C6090,C6091 | CKSSYF104Z16 | |
| X5201 CERAMIC RESONATOR | ASS1178 | RESISTORS | | |
| | | RESISTORS R6010,R6068,R6072 | ACN1246 | |
| TEXT UCOM BLOCK] | | R6065,R6073 | BCN1067 | |
| SEMICONDUCTORS | | R6007,R6030,R6071 | RAB4CQ220J | |
| IC5403 | K4S641632H-TC75 | R6063 | RS1/16SS1001D | |
| IC5404 | S29AL016D70TFI010 | R6038,R6039,R6049 | RS1/16SS2000F | |
| IC5405 | SDA6000 | DCOE 4 | D04/400000045 | |
| IC5407 | TC74LCX125FT | R6054 R6052 | RS1/16SS2201D RS1/16SS6200D | |
| IC5402 | TC7SH04FUS1 | Other Resistors | RS1/16S86200D RS1/16S###J | |
| IC5406 | TC7W126FU | Carlot Hoololoro | 11017100111110 | |
| Q5401,Q5406 | DTA124EUA | <u>OTHERS</u> | | |
| Q5403,Q5407 | DTC124EUA | X6002 CRYSTAL | ASS1191 | |
| D5404 | 1SS355 | | | |
| D5401 | UDZS12(B) | IADO DI COLO | | |
| D5402 | UDZS3R0(B) | [ADC BLOCK] | | |
| D5402 D5403 | UDZS3R0(B) | SEMICONDUCTORS | AD00051/077 440 | |
| | 3223. (0) | IC6201 | AD9985KSTZ-110 | |
| COILS AND FILTERS | | COILS AND FILTERS | | |
| Ŋ F5402,F5403 EMI FILTER | CCG1162 | ⚠ F6201,F6204 EMI FILTER | CCG1162 | |
| CAPACITORS | | | | |
| C5412,C5438,C5453 (10/6.3V) | ACG7046 | CAPACITORS | | |
| C5422.C5423 | CCSSCH200J50 | C6205,C6209 | CKSSYB104K10 | |
| C5404 | CKSSYB102K50 | C6207,C6210,C6218 | CKSSYB473K16 | |
| C5403 | CKSSYB103K16 | C6202 C6201 | CKSSYB822K16 CKSSYB823K10 | |
| C5445 | CKSSYB104K10 | C6201,C6204,C6206,C6208 | CKSSYF104Z16 | |
| C5405,C5406,C5408,C5410,C5413 | CKSSYF104Z16 | | | |
| C5405,C5406,C5408,C5410,C5413 C5416,C5418,C5420,C5425,C5427 | CKSSYF104Z16 CKSSYF104Z16 | C6211,C6212,C6215-C6217 | CKSSYF104Z16 | |
| C5429-C5431,C5434,C5435,C5440 | CKSSYF104Z16 | C6222-C6224 | CKSSYF104Z16 | |
| C5442,C5446,C5449,C5451,C5454 | CKSSYF104Z16 | RESISTORS | | |
| C5456,C5458,C5460,C5476 | CKSSYF104Z16 | R6213,R6218,R6223 | BCN1067 | |
| 250107070 | | R6202 | RS1/16SS2701F | |
| RESISTORS | AON4054 | Other Resistors | RS1/16S###J | |
| R5409 | ACN1251 | | - | |
| R5404,R5428,R5429,R5434,R5435 R5439,R5457,R5476 | BCN1067 RAB4CQ103J | | | |
| R5432,R5460 | RAB4CQ103J | [HDMI BLOCK] | | |
| Other Resistors | RS1/16S###J | <u>SEMICONDUCTORS</u> | | |
| | | IC6403 | BR24L02FJ-W | |
| <u>OTHERS</u> | | IC6405 | PCM1754DBQ | |
| X5401 CRYSTAL | ASS1193 | IC6404 Q6416 | SII9021CTU 2SA1586 | |
| | | Q6414 | DTA124EUA | |
| VDEC BLOCK] | | | | |
| SEMICONDUCTORS | | Q6415 | DTC124EUA | |
| IC6002 | K4S161622H-TC60 | Q6405 | HN1K02FU | |
| IC6002 IC6003 | UPD64015AGM-UEU | Q6404 D6408 | RN1902 | |
| | SI DOTO IONGIVITULU | D6408 D6407 | 1SS301 UDZS6R8(B) | |
| | | 50-101 | 35230110(B) | |
| | | | | |
| | PI | OP-R06XE | | 35 |
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|---|--|------------------------------|---|----------------------------------|-----------------------------------|
| | Mark No. Description | Part No. | Mark No. | Description | Part No. |
| | <u>COILS AND FILTERS</u> <u></u> ↑ F6401 EMI FILTER | CCG1162 | [IP BLOCK] SEMICONDUC IC6801,IC6802 | CTORS | K4S643232H-TC60 |
| | CAPACITORS | 1007010 | IC6803 | | PE5504B |
| | C6491 (10/6.3V) C6401,C6403,C6405,C6407,C6411 | ACG7046 CCSSCH101J50 | COILS AND F | ILTERS | |
| | C6419,C6426,C6428,C6430,C6432 | CCSSCH101J50 | | CHIP FERRITE BEAD | BTX1042 |
| | C6434,C6435,C6438,C6440,C6442 C6444,C6446,C6448,C6449,C6454 | CCSSCH101J50 CCSSCH101J50 | CAPACITORS | | |
| | 00450 00450 00404 00400 00400 | 000001404150 | C6801 (10/6.3V | | ACG7046 |
| | C6456,C6459,C6464,C6466,C6468 C6470,C6472,C6474,C6476,C6478 | CCSSCH101J50 CCSSCH101J50 | C6863 | 6807-C6809,C6813 | CKSSYB102K50 CKSSYF104Z16 |
| | C6480,C6482 C6462,C6463 | CCSSCH101J50 CCSSCH120J50 | C6815-C6817,C | 6821,C6824-C6828 | CKSSYF104Z16 |
| | C6484 | CEHVKW220M6R3 | C6830,C6831,C | 6834,C6835 | CKSSYF104Z16 |
| | C6402,C6404,C6406,C6408,C6410 | CKSSYF104Z16 | C6839-C6862 | | CKSSYF104Z16 |
| | C6412,C6414,C6416,C6418,C6420 | CKSSYF104Z16 | RESISTORS | | |
| | C6422,C6423,C6427,C6429,C6431 C6433,C6436,C6437,C6439,C6441 | CKSSYF104Z16 CKSSYF104Z16 | R6833,R6838 | | ACN1246 |
| | C6443,C6445,C6447,C6450,C6451 | CKSSYF104Z16 | R6841,R6844-F | | ACN1251 |
| | C6455,C6457,C6458,C6460,C6461 | CKSSYF104Z16 | R6823,R6825,F | 86816,R6820,R6821 86827,R6828 | BCN1067 BCN1067 |
| | C6465,C6467,C6469,C6471,C6473 | CKSSYF104Z16 | R6818 | | BCN1071 |
| | C6475,C6477,C6479,C6481,C6483 C6490 | CKSSYF104Z16 CKSSYF104Z16 | R6832 | | RAB4CQ101J |
| | | 010011104210 | R6817 Other Resistors | | RAB4CQ470J RS1/16S###J |
| | RESISTORS | AON4054 | Other Resistors | | NS1/105###J |
| | R6418,R6419,R6421 R6414 | ACN1251 RAB4CQ100J | | Z1 | |
| | R6465 | RAB4CQ103J | [MULTI BLOCI | | |
| | R6438 R6416 | RAB4CQ470J RAB4CQ680J | IC7001 | <u> </u> | PEG121B |
| | Other Resistors | RS1/16S###J | IC7002 IC7004 | | S29JL032H70TFI21 TC74VHC08FTS1 |
| | | N31/103###J | | | |
| | OTHERS JA6402 HDMI CONNECTOR | AL/D1070 | COILS AND F | | CCG1162 |
| | X6401 CRYSTAL | AKP1278 ASS1192 | | | 0001102 |
| | | | CAPACITORS C7052 | | CKSSYB102K50 |
| | [DSEL BLOCK] | | | 7010-C7017,C7019 | CKSSYF104Z16 |
| | <u>SEMICONDUCTORS</u> | | C7021,C7023,C C7032-C7034,C | 7024,C7026-C7029 | CKSSYF104Z16 CKSSYF104Z16 |
| | IC6601 IC6602 | PD6523A TC74LCX125FT | | 7044,C7046-C7048 | CKSSYF104Z16 |
| | | | C7050 | | CKSSYF104Z16 |
| | COILS AND FILTERS ⚠ F6604 CHIP FERRITE BEAD | ATX1058 | | | - |
| | ⚠ F6601-F6603 EMI FILTER | CCG1162 | RESISTORS B7011.B7013.B | 7024,R7032,R7036 | ACN1246 |
| | CAPACITORS | | R7062-R7064 | | ACN1251 |
| | C6632 (10/6.3V) | ACG7046 | R7015,R7023 R7016,R7018,F | 7070 | RAB4CQ101J RAB4CQ103J |
| | C6604 | CCSRCH221J50 | R7060 | 17070 | RAB4CQ680J |
| | C6631 C6601-C6603,C6607-C6610 | CKSSYB102K50 CKSSYF104Z16 | OIL D | | DO4/400/4/4/1 |
| | C6613-C6617,C6619,C6621-C6623 | CKSSYF104Z16 | Other Resistors | | RS1/16S###J |
| | C6625-C6627,C6629,C6630 | CKSSYF104Z16 | [MR IF BLOCK | n | |
| | RESISTORS | | SEMICONDUC | - | |
| | R6603-R6605 | ACN1251 | IC7202 | | SII170BCLG64 |
| | R6611,R6614,R6618 | BCN1071 | IC7201,IC7203 Q7206 | | TC74VHC08FTS1 2SA1586 |
| | R6613,R6620 Other Resistors | RAB4CQ101J RS1/16S###J | Q7203,Q7207,C | 27210 | DTA124EUA |
| | | | Q7211 | | DTC124EUA |
| | OTHERS X6601 CRYSTAL | ASS1194 | Q7209 | | HN1C01FU |
| | | | Q7201 D7202-D7206 | | RN1902 1SS355 |
| | | | | | |
| (| 36 | PDP-R06X | Œ | | |

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PDP-R06XE

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|---|------------------------------|-------------------------------------|------------------------------|---|
| Mark No. Description | Part No. | Mark No. Description | Part No. | |
| COILS AND FILTERS | | FRONT ASSY | | |
| ♠ F7204-F7207 EMI FILTER ♠ L7201 CHIP FERRITE BEAD | ATF1209 | SEMICONDUCTORS | | |
| ⚠ F7201-F7203,F7208 EMI FILTER | BTX1042 CCG1162 | D7801-D7803 | UDZS5R1(B) | Α |
| | 0001102 | D7804,D7808 | UDZS9R1(B) | |
| <u>CAPACITORS</u> | | COILS AND FILTERS | | |
| C7203,C7207,C7208 (10/6.3V) C7226,C7227 | ACG7046 CCSSCH100D50 | L7801,L7802 | LCTAW1R0J2520 | |
| C7201,C7204,C7211,C7213,C7214 | CCSSCH101J50 | O A DA OLTODO | | |
| C7216,C7217,C7219,C7221 | CCSSCH101J50 | CAPACITORS C7803.C7804 | CKSRYB103K50 | |
| C7223 | CKSSYB102K50 | C7805,C7808,C7809,C7813 | CKSRYB105K10 | |
| C7209,C7215,C7220,C7225,C7228 | CKSSYB471K50 | C7801 | CKSRYB473K16 | |
| C7202,C7205,C7206,C7210,C7212 | CKSSYF104Z16 | | CKSSYB102K50 CKSSYF104Z16 | |
| C7218,C7224 | CKSSYF104Z16 | 07002,07000-07000 | 010011104210 | |
| RESISTORS | | C7835 | DCH1165 | В |
| R7215 | RAB4CQ101J | RESISTORS | | |
| R7216 | RS1/16S5100F | R7801,R7803,R7809 | RS1/16S75R0F | |
| Other Resistors | RS1/16S###J | Other Resistors | RS1/16S###J | |
| <u>OTHERS</u> | | OTHERS | | |
| CN7201 20P SOCKET | AKP1226 | JA7803 3P PIN JACK | AKB1303 | |
| CN7202 24P DVI SOCKET | AKP1250 | CN7803 12P FFC CONNECTOR | AKM1233 | |
| | | CN7804 50P CONNECTOR | AKM1236 | |
| | | JA7801 4P MINI DIN SOCKET | AKP1238 | |
| REAR IO ASSY | | | | С |
| COILS AND FILTERS | LOTANA/500 10500 | 1 ED 400V | | C |
| L7401,L7402 | LCTAW560J2520 | LED ASSY | | |
| <u>CAPACITORS</u> | | SEMICONDUCTORS Q8004 | DTC124EUA | |
| C7404,C7405 | CKSRYB102K50 | Q8004 Q8002 | RN2902 | |
| C7401-C7403 | CKSRYB105K10 | D8003 | SML-311UT | |
| RESISTORS | | D8004 | SML310BA1T | _ |
| R7401-R7403 | RS1/16S75R0F | SWITCHES AND RELAYS | | |
| Other Resistors | RS1/16S###J | S8001-S8006 | ASG1088 | |
| OTHERS | | O A DA OLTO DO | | |
| JA7402 3P PIN JACK | AKB1328 | CAPACITORS C8005,C8006 | CCSRCH101J50 | D |
| CN7402 CONNECTOR | CKS3826 | C8001,C8002 | CKSSYF104Z16 | |
| JA7401 3P PIN JACK | PKB1034 | | | |
| | | RESISTORS | D04/400/11/11/1 | |
| 07.1007 | | All Resistors | RS1/16S###J | |
| SR ASSY | | <u>OTHERS</u> | | |
| SEMICONDUCTORS IC7601 | MAX3232CPW | CN8001 CONNECTOR | CKS3826 | |
| IC7601 | TC74VHC125FTS1 | | | |
| | | | | |
| CAPACITORS | 0510///// | POWER SUPPLY UNIT | | Е |
| C7608 C7603-C7607.C7610 | CEHVKW100M16 CKSSYF104Z16 | POWER SUPPLY Unit has no service pa | art. | L |
| 2.222 2.00.,0.0.0 | | | | |
| <u>RESISTORS</u> | | | | |
| All Resistors | RS1/16S###J | | | |
| OTHERS | | | | |
| CN7602 9P D-SUB SOCKET | AKP1213 | | | _ |
| CN7601 CONNECTOR | CKS3826 | | | |
| | | | | |
| | | | | |
| | | | | F |

6. ADJUSTMENT

1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. Replacement of individual components on the circuitboard can cause malfunction and/or failure. If replacement is necessary, the assembly must be replaced.

3

2. Use a stable AC power supply.

6.1 POSSIBLE CASES WHERE READJUSTMENT IS REQUIRED

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■ When any of the following assemblies is replaced

| В (| POWER SUPPLY Unit | No adjustment required |
|-----|-------------------|------------------------|
| (| MR MAIN Assy | No adjustment required |
| (| PC Card Module | No adjustment required |
| • (| R06 D-TUNER Assy | No adjustment required |
| (| Other assemblies | No adjustment required |

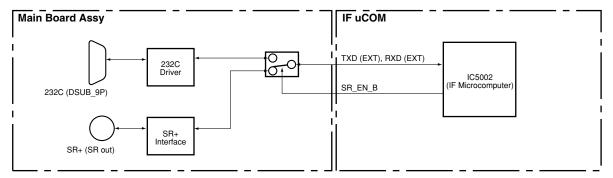
| O | ■ When any part in the following | assem | blies is replaced |
|---|----------------------------------|----------|---|
| | POWER SUPPLY Unit | → | The assembly must be replaced as a unit, and no part replacement is allowed. |
| | MR MAIN Assy | → | Replacement of components IC4804, IC4806, IC5207, IC6001, IC6003 and IC6201 on the circuitboard can cause malfunction and/or failure. If replacement is necessary, the assembly must be replaced. |
| D | PC Card Module | → | The assembly must be replaced as a unit, and no part replacement is allowed. |
| | R06 D-TUNER Assy | → | The assembly must be replaced as a unit, and no part replacement is allowed. |
| I | Other assemblies | → | No adjustment required |

PDP-R06XE

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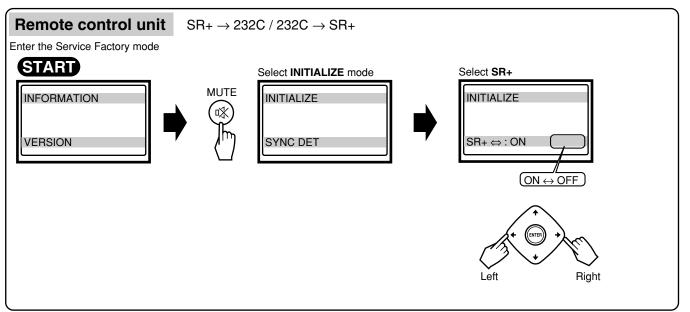
For the PDP-436HD and PDP-506HD series Plasma Displays, the circuitry is structured as shown in the diagram below to support the SR+ system. Controlling with either the SR+ system or RS-232C commands can be selected. As the SR+ system is selected at shipment, to control with RS-232C commands in servicing it is necessary to switch the paths. After servicing, be sure to return the setting to the SR+ system.

Rough diagram of switching between SR+ and RS-232C



● How to switch from SR+ to RS-232C

5



Tips: How to change the SR+/RS-232C setting without entering Service Factory mode

Hold the **VOLUME** ⊿+ or ⊿− key on the remote control unit pressed for 3-10 seconds during Standby mode. Then within 3 seconds after the key is released, hold the **2-screen ③** key on the remote control unit pressed for 3-10 seconds. Then within 3 seconds after the key is released, use the **SET** key on the remote control unit to set to RS-232C (the baud rate last selected is chosen) or the **HOME MENU** key to set to SR+.

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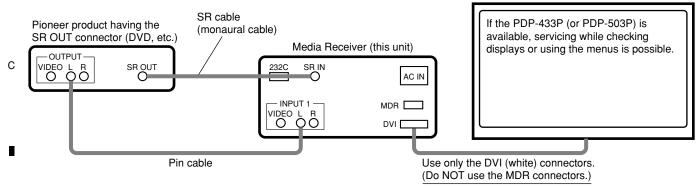
6.3 SERVICING USING ONLY THE MEDIA RECEIVER

For servicing of the PDP-436HD and PDP-506HD-series Plasma Display using only the Media Receiver, the following two methods can be used:

Operations using a Media Receiver alone are provided for rewriting software and essentially are not guaranteed as proper operations. As video signals are output during those operations, when the plasma display is connected to the Media Receiver, as shown in the connection examples below, you can check the signals on the screen. However, when a plasma display model prior to the PDP-433P(or PDP-503P) is connected, noise may appear in the signals. To check functions or operations, be sure to use a PDP-436P(or PDP-506P).

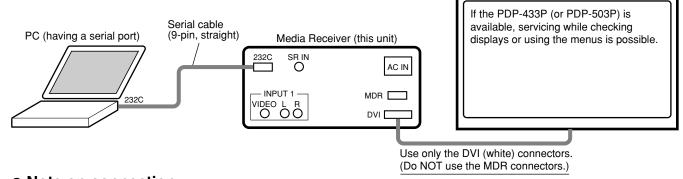
Remote controlling using SR connections (Except PDP-R06FE) About connections

- Connect the SR OUT connector of a Pioneer product having that connector (a DVD in the following example) and the SR IN connector of the Media Receiver, using the SR cable. As the remote control sensor is not provided with the Media Receiver, this connection is required for using the remote control unit if the panel is not available. In this case, aim the remote control unit at the remote control sensor of the device (DVD in this case).
- Connect either the audio or the video output of the device (DVD in the example) and the corresponding audio or video input of the Media
 Receiver, using a cable with phono plugs. This connection is required in order to use ground in common with the SR cable, because with the
 SR cable connection the ground connection for signal reference is not available. In the example, the audio L channel is used, but the audio
 R channel or video can be used instead.
 - If the plasma display for a previous model, such as the PDP-433P or PDP-503P, is available, servicing while checking displays or using the menus is possible. For this, connect only the DVI connectors (white) of the Media Receiver and the plasma display. The MDR connector of the Media Receiver must not be used, even though it has the same shape and number of pins, because signals assigned to the connectors differ. Using the MDR connector may damage the unit.



RS-232C control using a PC

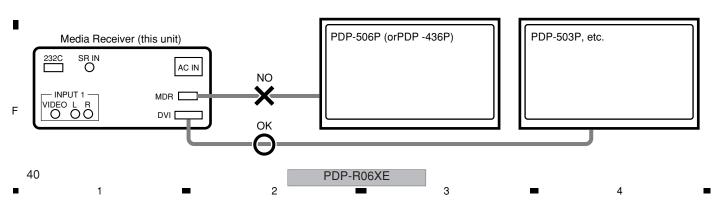
RS-232C control is not available in shipment. Please set baud rate of PC in 38400bps. For connection with the PC, use a straight cable.



Note on connection

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If the MDR connector of the PDP-436HD or PDP-506HD-series is used, it is considered that the PDP-436P (or PDP-506P) is connected, and the Media Receiver operates on such precondition, which may result in a failure of the Media Receiver. Be sure not to connect to the MDR connector. (Do NOT use the MDR connector when servicing the Media Receiver alone.)



To operate in Service Factory mode, use the supplied remote control unit.

How to enter Service Factory Mode

While in Standby mode, follow the below procedures with the remote control to enter Service Factoy mode.

- 1. Press the [DISPLAY] key.
- 2. 3 second counter will start.
- 3. After 3 seconds, press [LEFT] key. (If no operation is done within 10 seconds, the Service
- 4. 5 Second counter will start.
- 5. Before 5 second counter ends, press [UP] key.
- 6. Before 5 second counter ends, press [LEFT] key.
- 7. Before 5 second counter ends, press [RIGHT] key.
- 8. Before 5 second counter ends, press [POWER] key.
- Factory routine is cleared, and the standby mode is returned) 9. If the prodcedure is correct with the given time, the Service Factory mode is up and ready.
- * During step 3 to 8, if other operations took place, the Service Factory routine is cleared.
- * If the counter's time is up, normal standby mode is returned.

Operation in Service Factory mode

• Functions whose settings are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

- Two-screen operations (input function set on the main side is selected)
- P ZOOM
- FREEZE
- Detection of the TRAP switch (The log in the EEPROM is retained.) (KUC type only)

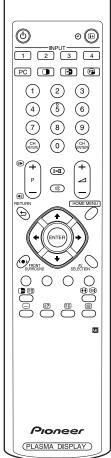
User data

User data will be treated as follows:

- · User data on picture- and audio-quality adjustments are not reflected, and factory-preset data are output (user data will be retained in memory). When the unit enters Factory mode, the current audio-quality adjustment data will still be retained in
- As to data on various settings, user data will be applied to the items that are associated with signal format change (screen size switching, etc.).
- · Data on screen (i.e., screen position; meaning clock dividers, and not including data on screen size) are reset to the default values (data stored in memory will be retained). Screen size will be retained.

■ Remote control codes in Service Factory mode

| SR Function | Main Function | Remarks | |
|--------------|---------------------------------|--|--|
| Muting | Switching the main items | Shifting to the next main item (top) | |
| DOWN | Switching the subtitled items | Shifting downward to the next subtitled item | |
| UP | Switching the subtitled items | Shifting upward to the next upper layer | |
| LEFT | Increasing the adjustment value | Increasing the adjustment value | |
| RIGHT | Decreasing the adjustment value | Decreasing the adjustment value | |
| SET | Switching layers | Shifting downward or upward to the next lower or upper layer | |
| INPUT | Selecting input | Shifting the input to the next function | |
| INPUTxx | Selecting input | Switching the input to xx | |
| CH+ | Increasing the channel number | Advancing a preset channel (effective when Function is set to TV) | |
| CH- | Decreasing the channel number | Turning a preset channel backward (effective when Function is set to TV) | |
| Numeric keys | Function: TV | Function: TV (previously selected channel number is selected) | |
| POWER | Power OFF | Turning the power off | |
| FACTORY | Factory OFF | Turning Service Factory mode off | |
| MENU | Menu ON | Turning Service Factory mode off and Menu mode on | |



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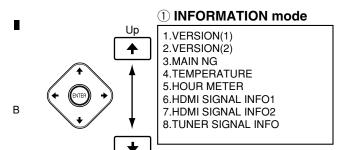
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■ Changes of the Service Factory menus



Down



6 INITIALIZE mode

1.SYNC DET
2.SG MODE
3.SG PATTERN
4.SIDE MASK LEVEL
5.FINAL SETUP
6.SR+
7.UART SELECT
8.CVT AUTO
9.HDMI INTR POSITION





2 FUNCTION CHECK mode

1.FAN 2.DTB ANT VOLT (PDP-R06XE Only)



5 OPTION mode

1.PEAK LIMITER 2.EDID WRITE MODE 3.CH PRESET



③ COMMON ADJ. mode

1. RGB 1



4 PANEL FACTORY mode

1.PANEL INFORMATION
2.PANEL WORKS
3.POWER DOWN
4.SHUT DOWN
5.PANEL-1 ADJ
6.PANEL-2 ADJ
7.PANEL REVICE
8.ETC
9.MASK SETUP

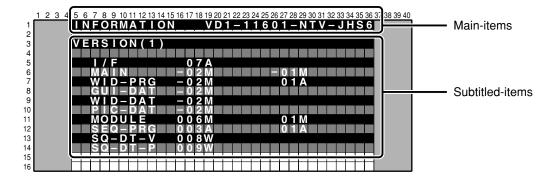
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PDP-R06XE

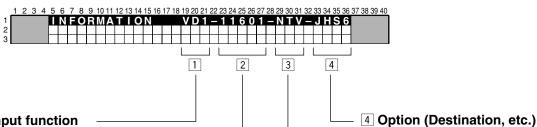
_

■ Indications in Service Factory mode



■ Main-item indications

Four parameters are displayed:



1 Input function

| Input Functions | On-Screen Display |
|-----------------|-------------------|
| INPUT 1-5 | AV 1 - 5 |
| Analog Tuner | AIR |
| Digital Tuner | ARD |
| PC Card | PCC |
| PC | PC |

Note: AV5/ARD/PCC/ PC is PDP-R06XE only.

2 SIG mode and screen size

Note: See SIG-Mode Tables. (See next page.)

3 Color system and signal type

| Color System and Signal Type | | On-Screen Display | Color System and Signal Type | | On-Screen Display |
|------------------------------|-----------------|-------------------|-------------------------------------|-------------------|-------------------|
| NTSC | | NTV | NTSC | | NTS |
| PAL | | PLV | PAL | | PLS |
| PAL N | | PNV | PAL N | | PNS |
| PAL M | Composite input | PMV | PAL M | S-connector input | PMS |
| SECAM | | SCV | SECAM | | SCS |
| 4.43NTSC | | 4NV | 4.43NTSC | | 4NS |
| BLACK/WHITE | | BWV | BLACK/WHITE | | BWS |
| Y/CB/CR | • | CBR | RGB | | RGB |
| Y / PB / PR | | PBR | Digital video signal | | DIG |

Options

Advanced: PDP-R06XE

Basic: PDP-R06FE

On-Screen Display

EHS6

EBS6

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SIG-Mode Table

The signal mode is displayed in four charecters:

1st and 2nd charecters: Resolutin of the input signal (numerics for the video signals, and alphabetics for the PC signals)

3rd and 4th charecters: Grouping of the V frequencies (refresh rate)

5th charecter : Selection of the screen size by the user is displayed.

SIG-Mode table for video signals (resolutions and V frequencies)

| 1st and 2nd | 3rd and 4th | Signal Type | Fv (Hz) | Fh (kHz) |
|-------------|--------------|-------------------|---------|----------|
| 10 | 50 SDTV*625i | | 50.000 | 15.625 |
| 10 | 60 | SDTV*525i | 60.000 | 15.750 |
| 12 | 60 | SDTV*525i (PAL60) | 60.000 | 15.750 |
| 00 | 50 | SDTV*625p | 50.000 | 31.250 |
| 20 | 60 | SDTV*525p | 60.000 | 31.500 |
| 00 | 50 | HDTV*1125i | 50.000 | 28.125 |
| 30 | 60 | HDTV*1125i | 60.000 | 33.750 |
| 40 | 50 | HDTV*750p | 50.000 | 37.500 |
| 40 | 60 | HDTV*750p | 60.000 | 45.000 |
| 50 | 24 | HDTV*1125p | 24.000 | 27.000 |

Fv: Vertical Frequency, Fh: Horizontal Frequency

SIG-Mode table for PC signals(resolutions and V frequencies)

| 1st and 2nd | 3rd and 4th | Signal Type | Fv (Hz) | Fh (kHz) |
|-------------|-------------|-------------|---------|----------|
| C1 | 70 | 720x400 | 70.087 | 31.469 |
| | 60 | | 59.940 | 31.469 |
| C2 | 72 | 640x480 | 72.809 | 37.861 |
| | 75 | | 75.000 | 37.500 |
| | 56 | | 56.250 | 35.1556 |
| 0.4 | 60 | 800x600 | 60.317 | 37.879 |
| C4 | 72 | | 72.188 | 48.077 |
| | 75 | | 75.000 | 46.875 |
| | 60 | | 60.004 | 48.363 |
| C7 | 70 | 1024x768 | 70.069 | 56.476 |
| | 75 | | 75.029 | 60.023 |
| | 56 | | 56.250 | 45.113 |
| C8 | 60 | 1280x768 | 59.833 | 47.986 |
| | 70 | | 70.000 | 56.137 |

Fv: Vertical Frequency, Fh: Horizontal Frequency

| Selection of the screen size by the user is displayed. | | | | | |
|--|--------------------|-------|----|---------|--|
| 5th | Description on GUI | VIDEO | PC | Remarks | |
| 0 | DOT BY DOT | _ | • | | |
| 1 | 4:3 | • | • | | |
| 2 | FULL(FULL1) | • | • | | |
| 3 | ZOOM | • | _ | | |
| 4 | CINEMA | • | - | | |
| 5 | WIDE | • | - | | |
| 6 | FULL 14:9 | • | - | | |
| 7 | CINEMA 14:9 | • | _ | | |
| 8 | FULL2 | • | • | | |

•: available, -: not available

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PDP-R06XE

■ Factory Menus

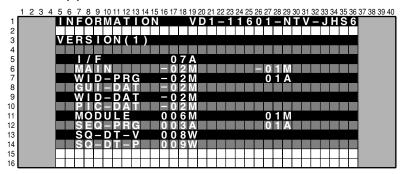
1) INFORMATION mode

5

Operation items

| No. | Function / Display | Content | RS-232C |
|-----|---|---|---------|
| 1 | VERSION (1) | The flash memory versions for each device are displayed. (common part) | QS1 |
| 2 | VERSION (2) | The flash memory versions for each device are displayed. (individual part) | QS6 |
| 3 | MAIN NG | The shutdown generated on Media Receiver side and its time of occurrence are displayed. | QNG |
| 4 | TEMPERATURE | Information of temperature and fan status on Media Receiver side are displayed. | QMT |
| 5 | HOUR METER Cumulative power-on time to the Media Receiver is displayed. | | - |
| 6 | HDMI SIGNAL INFO 1 | The file information of HDMI series are displayed. | |
| 7 | HDMI SIGNAL INFO 2 | | |
| 8 | TUNER SIGNAL INFO The signal information on TUNER is displayed. | | _ |

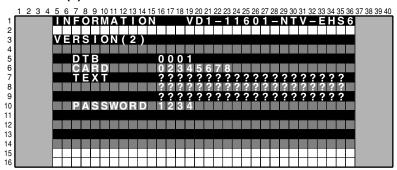
1. VERSION (1)



| Flash memory on Device | On-Screen Display | |
|--|-------------------|--|
| IF microcomputer | I/F | |
| Main microcomputer | MAIN | |
| Program for CARRERA-MANTA | WID-PRG | |
| GUI data for CARRERA-MANTA | GUI-DAT | |
| Enhanced data for CARRERA-MANTA. | WID-DAT | |
| Picture Quality data for CARRERA-MANTA | PIC-DAT | |
| Module microcomputer(for the PDP) | MODULE | |
| Program for ASTRA-MANTA(for the PDP) | SEQ-PRG | |
| Sequence data for ASTRA-MANTA Video | SQ-DT-V | |
| Sequence data for ASTRA-MANTA PC | SQ-DT-P | |

2. VERSION (2)

5



| On - Screen Display | Version Display | Remarks |
|---------------------|---------------------|--|
| DTB | 4 character | PDP-R06XE only |
| CARD | 8 character | PDP-R06XE only |
| TEXT | 60 character | 20 character x 3 |
| PASSWORD | 4 character | |
| | DTB CARD TEXT | DTB 4 character CARD 8 character TEXT 60 character |

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В

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PDP-R06XE

В

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 44

INFORMATION VD1-11601-NTV-JHS6

MAIN NG

MAIN SUB

1 MA-IIC FE2

2 MA-IIC AV-SW

0 0 0 1 3 H 5 0 M

3 MA-SRL

D-SEL

0 0 0 0 2 H 5 2 M

4 MAIN ----
0 0 0 0 0 H 5 8 M

5 TEMP2

12

13

14

15

16

• Media Receiver NG information

| OSD: MAIN | OSD: SUB | Cause of Shutdown |
|-----------|----------|---|
| MODULE | | Abnormary in Module microcomputer communication |
| MA-SRL | | Abnormary in 3-wire Serial Communication of the Main microcomputer. |
| | IF | Communication failure of IF microcomputer |
| | MULTI1 | MANTA communication failure(MULIT1) |
| | I/P | MANTA communication failure(I/P) |
| | D-SEL | MANTA communication failure(D-SEL) |
| MA-IIC | | Abnormary in Main microcomputer IIC communication |
| | FE1 | Analog Tuner 1(Front End 1) |
| | FE2 * | Analog Tuner 2(Front End 2) |
| | MPX | MPX |
| | AV-SW | AV Switch |
| | RGB-SW | RGB Switch |
| | CCD * | CCD |
| | GCR * | GCR |
| | M-VDEC | Main VDEC |
| | S-VDEC | Sub VDEC |
| | ADC | AD/PLL |
| | HDMI | HDMI |
| | PLK-T | TMDS Tx |
| | PLK-R | TMDS Rx |
| | TX-COM | M2 Communication |
| | TX-BSY | M2 Busy |
| | MA-EEP | 64k EEPROM |
| MAIN | | Abnormary in Main microcomputer communication |
| FAN | | Fan stopped |
| TEMP2 | | Abnormally high temperature of the MR. |
| DTUNER | | Failure of the Digital Tuner |
| | PS/RST | Failure in DTB Starting |
| | RETRY | DTB communication failure |
| M-DCDC | | Power decrease of the DC-DC converter (only for SX model) |
| HOME-G | | Failure of the Home Gallery |
| | CD-COM | PC Card Communication failure |
| | CD-DEV | Requirement for resetting from the PC Card |
| | CD-RST | PC Card reset failure |

^{*:} Not available

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PDP-R06XE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

INFORMATION VD1 - 11601 - NTV - JHS6

TEMPERATURE

TEMP2 : 130

FAN : MIN

FAN : MIN

101

114

115

116

TEMP2: The value read from the temperature sensor built into the Media Receiver is displayed in the range of 000-255. For reference, the approximate value for 60°C is 86 and for 35°C is 67.

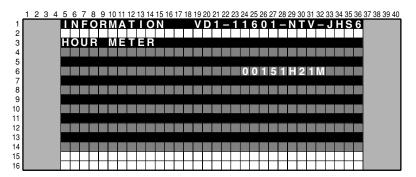
Reference: When TEMP2 exceeds 100 (about 78°C), SD LED (Blue) flash 11 times.

FAN: The value of the Fan output is displayed.

STOP: stopped, MIN: slow speed, MAX: high speed

5. HOUR METER

5



The cumulative power-on time of the Media Receiver is displayed.

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6. HDMI SIGNAL INFO

В

• Technical examination display (Reading status registers in HDMI receiver and displaying them by HEX value.)

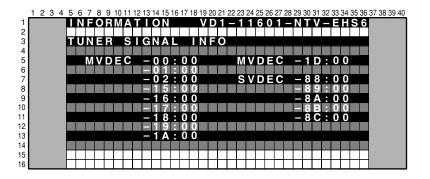
| | HDMI SIGNAL INFO 1 | | | | |
|------|--------------------|---|--|--|--|
| | SA | Context | | | |
| | - 4E: | Video DE pixels [7:0] | | | |
| | - 4F: | Video DE pixels [11:8] | | | |
| 0x60 | - 50: | Video DE lines [7:0] | | | |
| | - 51: | Video DE lines [10:8] | | | |
| | - 55: | Video status (interlace or progressive, sync polarity) | | | |
| | - 2A: | Audio in channel status (PCM, copy information etc.) | | | |
| | - 30: | Audio in SPDIF channel status (sampling frequency) | | | |
| | - 31: | Audio in SPDIF channel status (sample word length) | | | |
| | - 44: | AVI InfoFrame data1 (video format etc.) | | | |
| | - 45: | AVI InfoFrame data2 (colorimetry, aspect ratio) | | | |
| | - 46: | AVI InfoFrame data3 (video scaling) | | | |
| 0x68 | - 47: | AVI InfoFrame data4 (video identification code) | | | |
| | - 48: | AVI InfoFrame data5 (pixel repeat value for 2880dot) | | | |
| | - 84: | Audio InfoFrame data1 (channel count, cording type) | | | |
| | - 85: | Audio InfoFrame data2 (always zero) | | | |
| | - 86: | Audio InfoFrame data3 (always zero) | | | |
| | - 87: | Audio InfoFrame data4 (channel / speaker allocation) | | | |
| | - 88: | Audio InfoFrame data5 (downmix inhibit, level shift value for downmixing) | | | |

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| | HDMI SIGNAL INFO 2 | | | |
|-------|--------------------|--|--|--|
| SA | | Context | | |
| | - 3A: | Video full H resolution [7:0] | | |
| 0,400 | - 3B: | Video full H resolution [12:8] | | |
| 0x60 | - 3C: | Video full V lines [7:0] | | |
| | - 3D: | Video full V lines [10:8] | | |
| | - 06: | N Value for audio clock regeneration method. [7:0] | | |
| | - 07: | N Value for audio clock regeneration method. [15:8] | | |
| 0,,00 | - 08: | N Value for audio clock regeneration method. [19:16] | | |
| 0x68 | - 0C: | CTS Value for audio clock regeneration method. [7:0] | | |
| | - 0D: | CTS Value for audio clock regeneration method. [15:8] | | |
| | - 0E: | CTS Value for audio clock regeneration method. [19:16] | | |

7. TUNER SIGNAL INFO



• Tuner signal information in MVDEC / SVDEC.

| Device | SA | Context | | |
|--------|-----|--|--|--|
| | 00h | Signal distinction 1 | | |
| | 01h | Signal distinction 2 | | |
| | 02h | Flag detection output | | |
| | 15h | Noise level detection 1 | | |
| MVDEO | 16h | Noise level detection 2 | | |
| MVDEC | 17h | Non - standard signal detection | | |
| | 18h | Subcarrier signal detection | | |
| | 19h | ACC data output | | |
| | 1Ah | ACC information output | | |
| | 1Dh | Input signal mode | | |
| | 88h | Status register 1 (TV/VCR status) | | |
| | 89h | Status register 2 (Macrovision detection etc) | | |
| SVDEC | 8Ah | Status register 3 (Front-end AGC gain value) | | |
| - | 8Bh | Status register 4 (Subcarrier to horizontal (SCH) phase) | | |
| | 8Ch | Status register 5 (signal distinction) | | |

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2 FUNCTION CHECK

Operation items

| No. | Display | Content | RS-232C |
|-----|------------------|--|---------|
| 1 | FAN <=> | Control FAN speed for Force. | _ |
| 2 | DTB ANT VOLT <=> | Change the power supply voltage for DTB antenna. | _ |

3

2

3 COMMON ADJ. mode

RGB1

В

С

Only for the technical use.

4 PANEL FACTORY mode

Operation items

| No. | Function / Display | | |
|-----|--------------------|--|--|
| 1 | PANEL INFORMATION | | |
| 2 | PANEL WORKS | | |
| 3 | POWER DOWN | | |
| 4 | SHUT DOWN | | |
| 5 | PANEL-1 ADJ | | |
| 6 | PANEL-2 ADJ | | |
| 7 | PANEL REVICE | | |
| 8 | ETC | | |
| 9 | MASK SETUP | | |

Refer to the service manual of the PDP-506P/436P.

⑤ OPTION mode

Operation items

| No. | Function/Display | Content | RS-232C |
|-----|-------------------|---|---------|
| 1 | PEAK LIMITTER ⇔ | Control Peak Limitter (Select ON/OFF) | _ |
| 2 | EDID WRITE MODE ⇔ | Control EDID WRITE MODE (Select DISABLE/ENABLE) | |
| 3 | CH PRESET ⇔ | USER ⇔ FACTORY | |

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6 INITIALIZE mode

5

Operation items

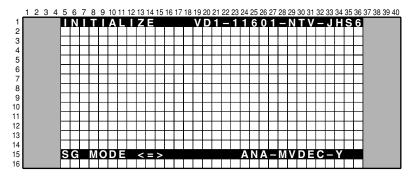
| No. | Function/Display | Content | RS-232C |
|-----|---|--|-------------------|
| 1 | SYNC DET(+) | Only for the technical use. | _ |
| 2 | SG MODE ⇔ | Paired SG_MODE with SG_PATTERN. Select SG Route. | _ |
| 3 | SG PATTERN ⇔ | Paired SG_MODE with SG_PATTERN. Select SG Pattern. | _ |
| 4 | SIDE MASK LEVEL(+) | Adjust Side Mask Color(R,G,B). | BSL GSL RSL |
| 5 | FINAL SETUP(+) Initialize flash memories on virgin product status | | FST |
| 6 | SR+ ⇔ Select SR+ mode or UART SELECT mode. | | _ |
| 7 | UART SELECT ⇔ Select boud Rate on RS-232C Communication | | _ |
| 8 | CVT AUTO ⇔ Only for the productical use. | | _ |
| 9 | HDMI INTR POSITION(+) Only for the technical use. | | _ |

1. SYNC DET(+)

Only for the technical use.

2. SG MODE

The route of the Test Signal from the MVDEC is chosen by this function. After setting this function, SG pattern should be set.



| No. | Display | Function |
|-----|-----------------|---------------------------------------|
| 1 | SG OFF | SG is set to OFF |
| 2 | DIG MVDEC YCBCR | Digital output (YCbCr) |
| 3 | ANA MVDEC Y | Analog output to the Videio SW (Y) |
| 4 | ANA MVDEC RGB | SCART (PDP-R06XE only) |
| 5 | ANA SVDEC Y | Analog output to the SUB Videio SW(Y) |
| 6 | ANA AD YCBCR | Analog output to the RGB SW (YCbCr) |
| 7 | ANA AD RGB | Analog output to the RGB SW (RGB) |

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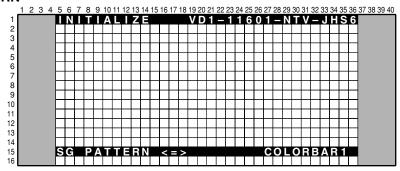
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3. SG PATTERN

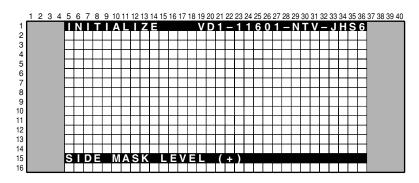


| No. | Function/Display | SG Pattern (Brightness IRE Level/Color) | No. | Function/Display | SG Pattern (Brightness IRE Level/Color) |
|-----|------------------|--|-----|------------------|---|
| 1 | COLOR BAR1 | Colorbar(75%) | 11 | RASTER4 | Raster(75% Green) |
| 2 | COLOR BAR2 | Colorbar(100%) | 12 | RASTER5 | Raster(75% Magenta) |
| 3 | RAMP1 | Ramp(100% white) | 13 | RASTER6 | Raster(75% Red) |
| 4 | RAMP2 | Ramp(100% Yellow) | 14 | RASTER7 | Raster(75% Blue) |
| 5 | RAMP3 | Ramp(75% Green) | 15 | RASTER8 | Raster(-% Black) |
| 6 | RAMP4 | Ramp(75% Red) | 16 | 10STEP1 | 10STEP(100% white) |
| 7 | RAMP5 | Ramp(75% Blue) | 17 | 10STEP2 | 10STEP(100% Yellow) |
| 8 | RASTER1 | Raster(100% White) | 18 | 10STEP3 | 10STEP(75% Green) |
| 9 | RASTER2 | Raster(75% Yellow) | 19 | 10STEP4 | 10STEP(75% Red) |
| 10 | RASTER3 | Raster(75% Cyanide) | 20 | 10STEP5 | 10STEP(75% Blue) |

Important notice of the Test Signal mode (SG mode, SG pattern)

- The route switching should be done correctly in the factory mode.
- Y or G signal from SG should be input to the AVI terminal of the MVDEC when the SG signal is output.
- The function of the blanking offset (50 IRE) should be OFF during the SG mode.
- The setting of the Y/C separation function should be set to the NTSC during the SG mode
- Only the RGB and Component signals can be output during SG mode, so only the Y signal is input at the CVBS and S signal mode, thus the picture is composed in black and white color. This isn't a trouble.
- The SG mode 7 (ANA AD RGB) is only for the factory mode. Therefore some probrem (strange color, unstable brightness etc.) might be happened.

4. SIDE MASK LEVEL

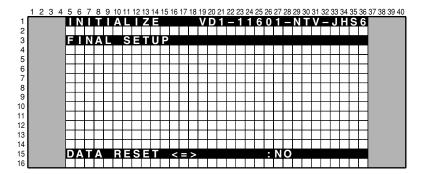


Level of the side mask (R, G, and B) can be adjusted by using this menu. The input signal is necessary to adjust it.

| No. | Display | Context | RS-232C |
|-----|----------------|-------------------------------------|---------|
| 1 | R MASK LEVEL ⇔ | Adjust Side Mask R (range :000-255) | RSL |
| 2 | G MASK LEVEL ⇔ | Adjust Side Mask G (range :000-255) | GSL |
| 3 | B MASK LEVEL ⇔ | Adjust Side Mask B (range :000-255) | BSL |

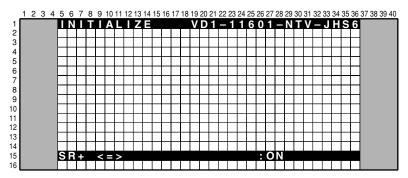
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5. FINAL SETUP



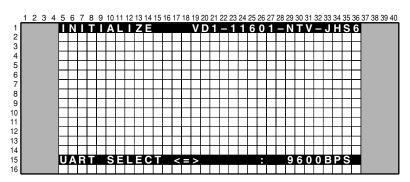
The value of all memorized data are set to shipment status. If the ENTER key is kept on pressing for 5 second when the status of this menu is YES, final setup will be done.

6. SR+



SR+ function \rightarrow ON, RS232C function \rightarrow OFF

7. UART SELECT



This function can be selected when the SR+ function is OFF.

| Option No. Display | | Operation / Control | RS-232C |
|---------------------|-------|------------------------------|------------|
| 1 (Initial setting) | | To Set to SR+ (9600bps) | SR+ is ON |
| 2 | 1200 | To Set to RS-232C (1200bps) | SR+ is OFF |
| 3 | 2400 | To Set to RS-232C (2400bps) | SR+ is OFF |
| 4 | 4800 | To Set to RS-232C (4800bps) | SR+ is OFF |
| 5 | 9600 | To Set to RS-232C (9600bps) | SR+ is OFF |
| 6 | 19200 | To Set to RS-232C (19200bps) | SR+ is OFF |
| 7 | 38400 | To Set to RS-232C (38400bps) | SR+ is OFF |

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6.5 LIST OF RS-232C COMMANDS (MEDIA RECEIVER)

RS-232C commands can be used in Service Factory mode. Before using RS-232C commands, it is necessary to change the factory presetting. See " 6.2 USING RS-232C COMANDS".
Refer to the service manual of the PDP506P/406P for the panel command.

[Note : If you want to see version information (ex. QS1, QS6, Factory, Menu), Please see 10 seconds after starting.]

| Command | Operation | Remarks |
|---------|--|---|
| В | | |
| BSL | Adjust side mask B | |
| С | | |
| CNG | Clearing MR NG information | |
| CHR | Clearing MR Hour meter | |
| D | | |
| DW* | Decreasing the adjustment value by* | *:1-9, 0(0 means 10),F(making the adjustment value the minimum) |
| F | | |
| FAN | Turning Service Factory mode off. | |
| FAY | Turning Service Factory mode on. | |
| FST | Final Set Up | |
| G | | |
| GSL | Adjust side mask side mask G | |
| I | | |
| INA | Selection of tuner for terrestrial analog signals. | PDP-R06XE only |
| INC*** | Selection of tuner for terrestrial digital signals | PDP-R06XE only |
| INH | Selection of SD card/PCMCIA card | PDP-R06XE only |
| INPS01 | Input selection: input 1 | |
| INPS02 | Input selection: input 2 | |
| INPS03 | Input selection: input 3 | |
| INPS04 | Input selection: input 4 | |
| INPS05 | Input selection: input 5 | |
| INPS06 | Input selection: input 6 | PDP-R06XE only |
| 0 | | |
| OSDS00 | Turning the On-Screen Display off | Prohibit On-Screen Display. |
| OSDS01 | Turning the On-Screen Display on | Permit On-Screen Display. |
| Р | | |
| POF | Turning the power off. | |
| PON | Turning the power on. | |
| Q | | |
| QS1 | Obtaining the version data for each device. | |
| QS6 | Obtaining the any version. | |
| QMT | Obtaining the MR temperature information. | |
| QNG | Obtaining NG data of the MR. | |
| R | | |
| RSL | Adjust side mask side mask R | |
| U | | |
| UP* | Increasing the adjustment value by * | *:1-9, 0(0 means 10),F(making the adjustment value the maximum) |
| Z | | |
| ZME | Initializing of the EEPROM video data | |

6.6 OUTLINE OF COMMANDS

QS1: Returning information on the module and the version of the software.

| Order | Part | Data Content | Size | Remarks |
|-------|------|--|--------|------------|
| 0 | - | Received Command Name on MR | 3 byte | 'QS1' only |
| 1 | | Display Information 1 | 1 byte | |
| 2 | | Display Information 2 | 1 byte | |
| 3 | | Display Information 3 | 1 byte | |
| 4 | | Display Information 4 | 1 byte | |
| 5 | | Display Information 5 | 1 byte | |
| 6 | | Boot Version of Module microcomputer. | 3 byte | |
| 7 | MDU | Program Version of Module microcomputer. | 8 byte | |
| 8 | | Boot Version of ASTRA-MANTA | 3 byte | |
| 9 | | Program Version of ASTRA-MANTA | 8 byte | |
| 10 | | Sequence Version (43VIDEO) | 4 byte | |
| 11 | | Sequence Version (43PC) | 4 byte | |
| 12 | | Sequence Version (50VIDEO) | 4 byte | |
| 13 | 1 | Sequence Version (50PC) | 4 byte | |
| 14 | | , (comma) | 1 byte | |
| 15 | | MR Infomation 1 | 1 byte | |
| 16 | | MR Infomation 2 | 1 byte | |
| 17 | | MR Infomation 3 | 1 byte | |
| 18 | | MR Infomation 4 | 1 byte | |
| 19 | MR | Version of IF microcomputer | 4 byte | |
| 20 | INIK | Version of Main microcomputer | 8 byte | |
| 21 | | Boot Version of Main microcomputer | 4 byte | |
| 22 | | Program Version of CARRERA-MANTA | 8 byte | |
| 23 | | Boot Version of CARRERA-MANTA | 4 byte | |
| 24 | | GUI Version of CARRERA-MANTA | 8 byte | |
| 25 | | Enhanced Version of CARRERA-MANTA | 8 byte | |
| 26 | | PIC Version of CARRERA-MANTA | 8 byte | |

QS6: Returning information of the Flash Device.

| Order | Data Content | Size | Remarks |
|-------|-------------------------------------|---------|------------|
| 0 | Received Command Name on MR | 3 byte | 'QS6' only |
| 1 | Version of DTB (PDP-R06XE only) | 4 byte | |
| 2 | Version of PC Card (PDP-R06XE only) | 8 byte | |
| 3 | Version of Text | 60 byte | |
| 4 | User Passward | 4 byte | |

QMT: Returning information of MR temperature and FAN speed.

| Order | Data Content | Size | Remark |
|-------|-----------------------------|--------|-----------------------------|
| 1 | Received Command Name on MR | 3 byte | 'QMT' only |
| 2 | MR Temperature | 3 byte | |
| 3 | MR FAN Speed | 1 byte | 0: STOP 1: MIN 2: MAX |

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PDP-R06XE

QNG: Returning data (logs keep on Main microcomputer) on shutdown of Media Receiver.

| Order | Data | Size | Context |
|-------|---|--------|------------|
| 0 | Received Command Name on MR | 3 byte | 'QNG' only |
| 1 | Latest NG data | 1 byte | |
| 2 | Data of subcategory for the latest NG | 1 byte | |
| 3 | Data of MR hour meter for the latest NG | 7 byte | |
| 4 | Data of temperature for the latest NG | 3 byte | |
| 5 | 2nd latest NG data | 1 byte | |
| 6 | Data of subcategory for the 2nd latest NG | 1 byte | |
| 7 | Data of MR hour meter for the 2nd latest NG | 7 byte | |
| 8 | Data of temperature for the 2nd latest NG | 3 byte | |
| : | : | : | |
| 29 | 7th latest NG data | 1 byte | |
| 30 | Data of subcategory for the 8th latest NG | 1 byte | |
| 31 | Data of MR hour meter for the 8th latest NG | 7 byte | |
| 32 | Data of temperature for the 8th latest NG | 3 byte | |

Details on the NG data and subcategory

| Data | Cause of Shutdown | Remarks |
|------|---|-----------------|
| 0 | Normal | |
| 1 | Failure of communication to Module microcomputer | |
| 2 | 3-wire Serial Communication of Main microcomputer. | Subcategory ⇒ 1 |
| 3 | IIC Communication failure of Main microcomputer | Subcategory ⇒ 2 |
| 4 | Communication failure of Main microcomputer &Unknown Error | |
| 5 | Fan stopped | |
| 6 | Abnormally high temperature at MR. | |
| 7 | Failure of Digital Tuner | Subcategory ⇒ 3 |
| 8 | Abnormally in RST2 of MR(power decrease of DC-DC converter) | |
| 9 | Failure at Home Gallary | Subcategory ⇒ 4 |

• Data on Subcategories for failure in 3-wire serial communication of Main microcomputer (subcategory 1)

| Data | Cause of Shutdown | Remarks |
|------|---|-----------|
| 0 | Non subcategory | |
| 1 | Communication failure of IF microcomputer | Power OFF |
| 2 | MANTA communication failure(MULIT1) | Power OFF |
| 3 | MANTA communication failure(MULIT2) | Reserved |
| 4 | MANTA communication failure(I/P) | |
| 5 | MANTA communication failure(D-SEL) | |

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• Data on Subcategories for failure in IIC communication of Main microcomputer (subcategory 2)

| Data | Cause of Shutdown | Data | Cause of Shutdown |
|------|-----------------------------|------|-------------------|
| 0 | Non subcategory | Α | AD/PLL |
| 1 | Analog Tuner 1(Front End 1) | В | HDMI |
| 2 | Analog Tuner 2(Front End 2) | С | TMDS Tx |
| 3 | MPX | D | TMDS Rx |
| 4 | AV Switch | E | M2 Communication |
| 5 | RGB Switch | F | M2 Busy |
| 6 | CCD | G | 64k EEPROM |
| 7 | GCR | | |
| 8 | Main VDEC | | |
| 9 | Sub VDEC | | |

• Data on Subcategories for failure in the DTB communication of Main microcomputer (subcategory 3)

| Data | Cause of Shutdown | Remarks |
|------|------------------------------|---------|
| 0 | Non subcategory | |
| 1 | Failure to DTB Starting | |
| 2 | Communication failure to DTB | |

• Data on Subcategories for failure in the Home Gallery communicaion of Main microcomputer (subcategory 4)

| Data | Cause of Shutdown | Remarks |
|------|----------------------------------|---------|
| 0 | Non subcategory | |
| 1 | Failure of PC Card Communication | |
| 2 | Failure of PC Card | |
| 3 | PC Card Reset NG | |

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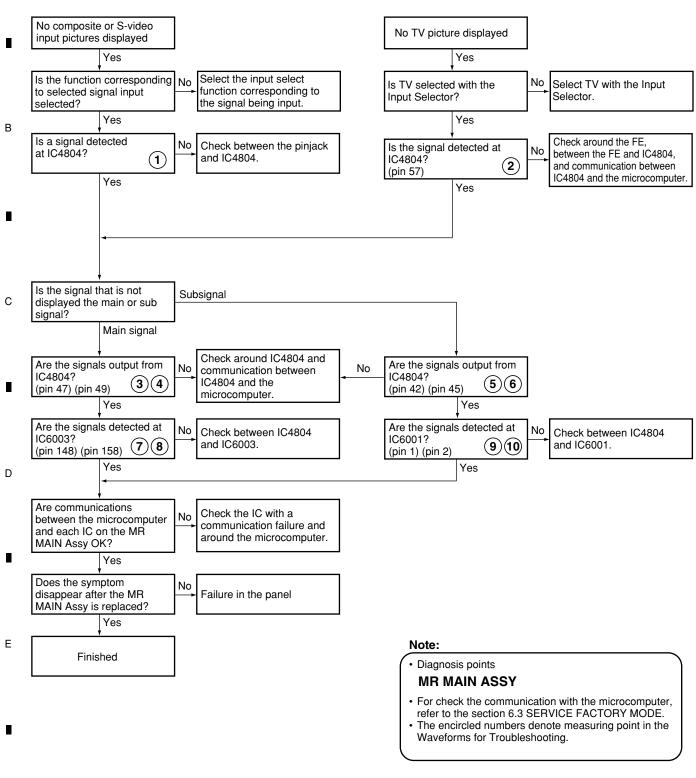
3

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TROUBLESHOOTING

No composite or S-video input pictures displayed

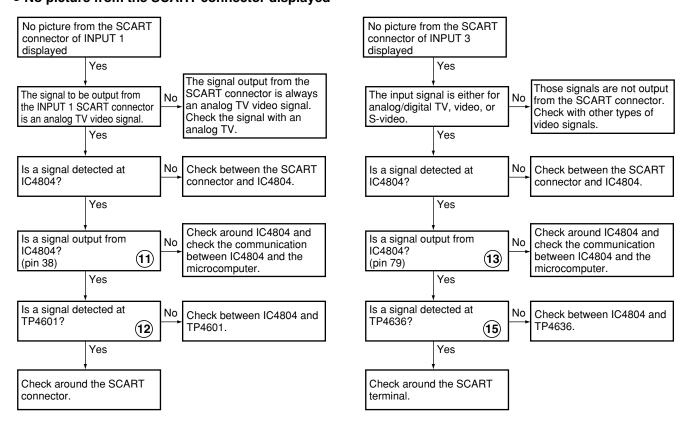


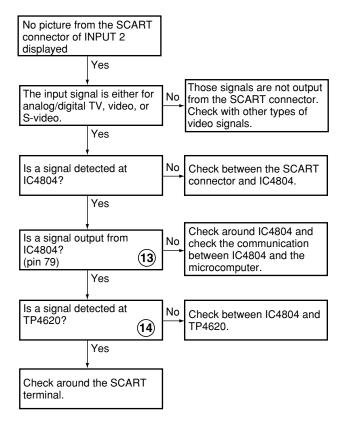
58

PDP-R06XE

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No picture from the SCART connector displayed





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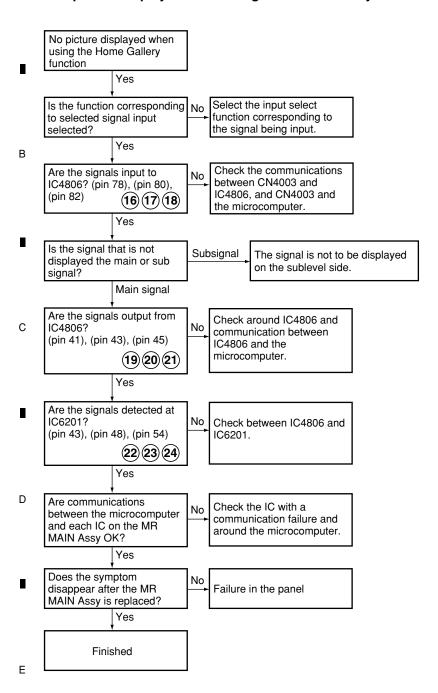
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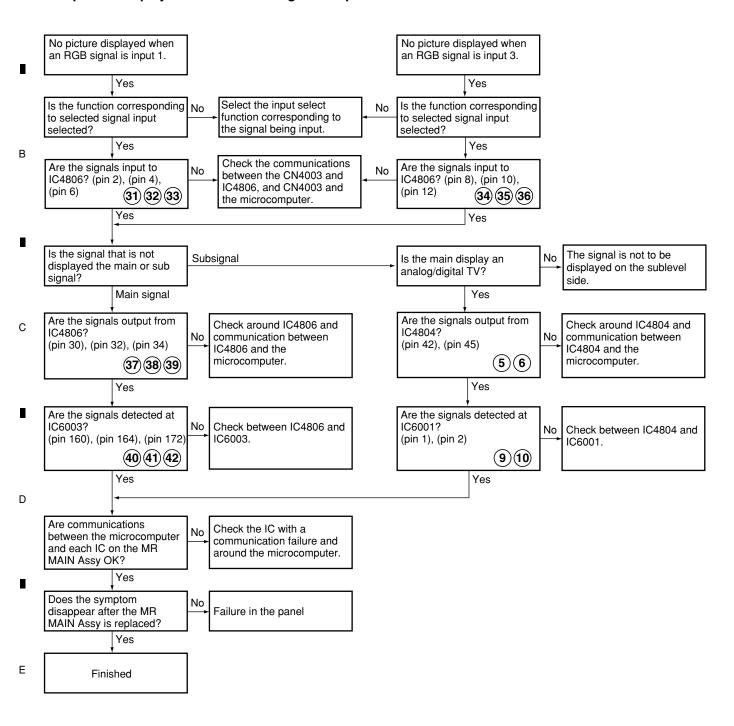
• No picture displayed when using the Home Gallery function



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• No picture displayed when an RGB signal is input



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PDP-R06XE

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correctly and check the

sound again.

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connected between CN4001

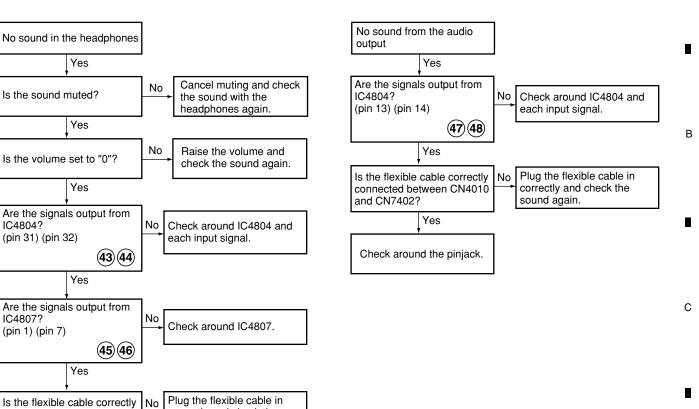
Check around the phono

Yes

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and CN7804?

jack.



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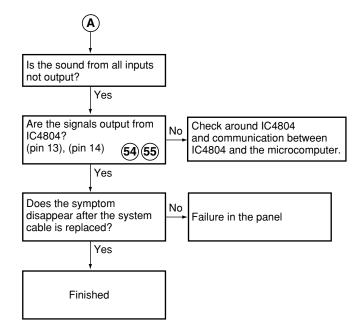
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PDP-R06XE

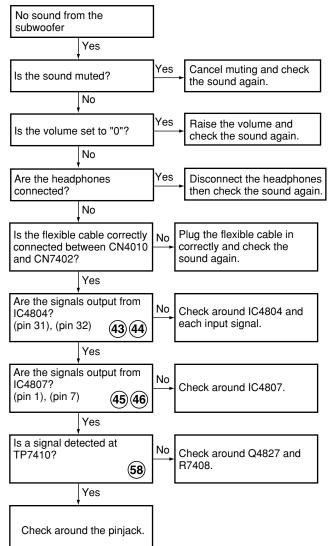
3 No sound from the speakers (1/2) No sound from the speakers Yes Cancel muting and check Is the sound muted? the sound with the headphones again. No Raise the volume and Is the volume set to "0"? check the sound again. No Disconnect the headphones Are the headphones and check the sound from connected? the speakers again. No Is only the sound from No Is only the sound of TV not the front input connector output? not output? Yes Yes Is a signal input to IC4401? Check around FE (U4401) Is the flexible cable correctly Plug the flexible cable in No No and communication between connected between CN4001 correctly and check the **(49)** FE and the microcomputer. and CN7804? sound again. Yes Yes Are the signals output from Check the communications No IC4401? between the FE and IC4401 (pin 30), (pin 31) (50) (51) and around IC4401. Is only the sound from the No HDMI connector not output? Yes Yes Are the signals input to No Check between IC4401 and IC4804? Are the signals output from IC4804. (pin 19), (pin 20) (52)(53)IC6405? (pin 7), (pin 8) (56) (57) Yes Yes Are the signals output from Check around IC4804 Check around IC6405 No IC4804? and communication between and communication between (pin 13), (pin 14) (54)(55) IC4804 and the microcomputer. IC6405 and the microcomputer. Yes Does the symptom No disappear after the system Failure in the panel cable is replaced? Is only the sound from the No Yes SCART input connector not output? Yes Finished Check between SCART connector and IC4804. 64 PDP-R06XE

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No sound from the subwoofer



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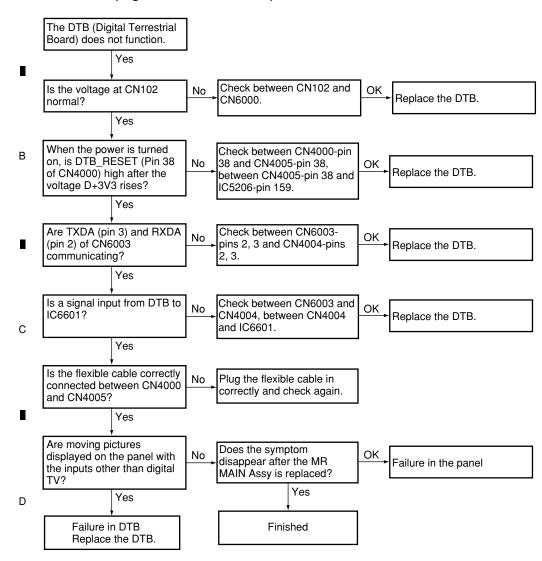
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• The DTB (Digital Terrestrial Board) does not function



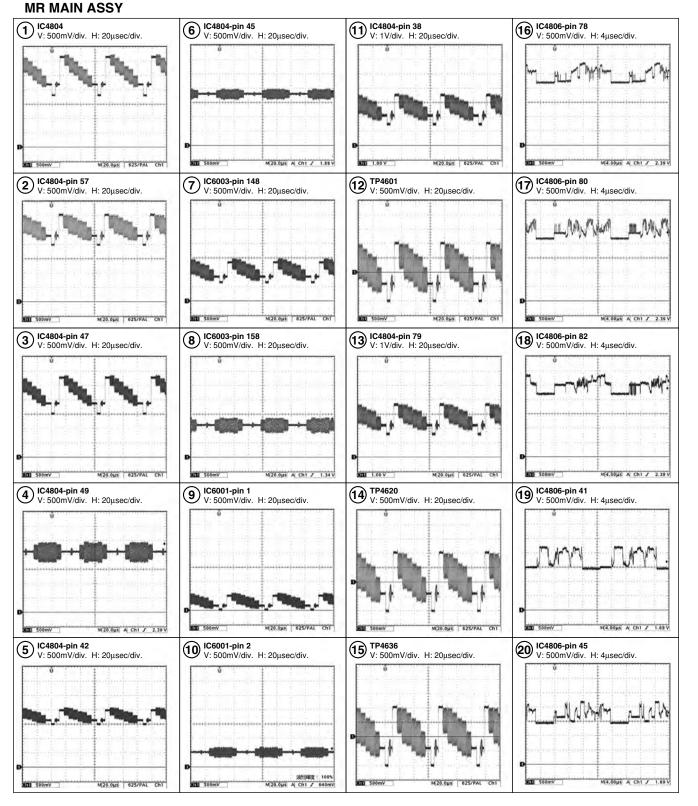
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PDP-R06XE
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Waveforms for Troubleshooting



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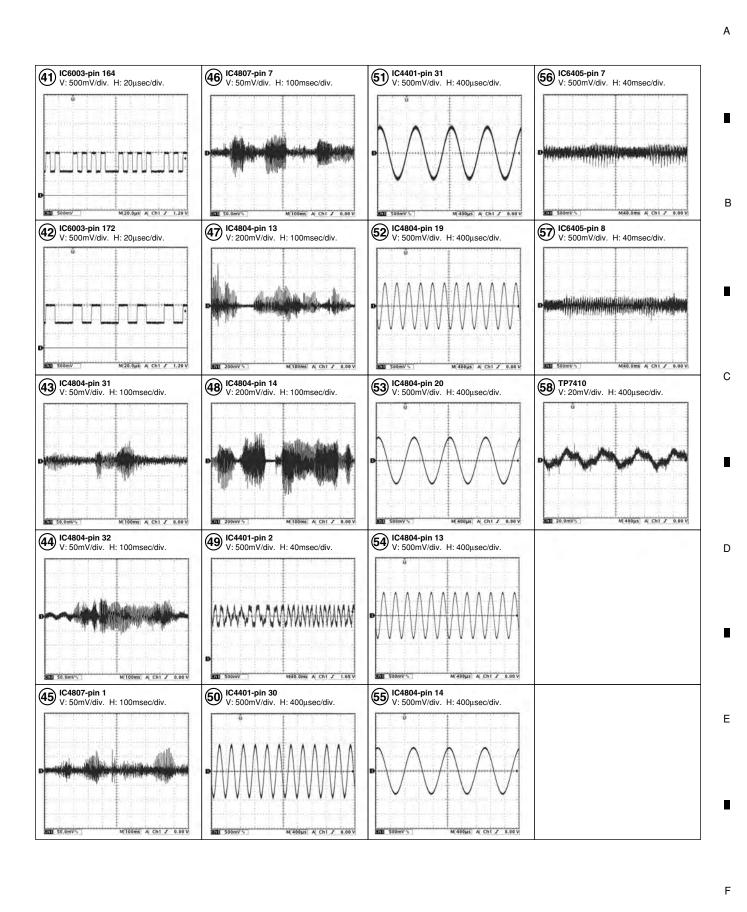
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21) IC4806-pin 45 V: 500mV/div. H: 4μsec/div. **26** IC4806-pin 96 V: 500mV/div. H: 10μsec/div. **31) IC4806-pin 2** V: 500mV/div. H: 20μsec/div. **36** IC4806-pin 12 V: 500mV/div. H: 20μsec/div. M(4.00µs) A Ch1 ✓ 1.69 V M(10.0μs A Ch1 5 2.77 V M(20.0µs) A| Ch1 ✓ 2.56 V M(20.0µs) A Ch1 ✓ 2.56 V **(22)** IC6201-pin 43 V: 500mV/div. H: 4μsec/div. **27** IC4806-pin 98 V: 500mV/div. H: 10μsec/div. **32** IC4806-pin 4 V: 500mV/div. H: 20μsec/div. **37** IC4806-pin 30 V: 500mV/div. H: 20μsec/div. M(20.0µs) A Ch1 ✓ 2.56 V M(10.0µs) A Ch1 J 2.77 V M[20.0µs] A| Ch1 J 1.75 V M4.00µs A Ch1 5 260m **23** IC6201-pin 48 V: 500mV/div. H: 4μsec/div. **28** IC4806-pin 64 V: 500mV/div. H: 10μsec/div. **33** IC4806-pin 6 V: 500mV/div. H: 20μsec/div. **38** IC4806-pin 32 V: 500mV/div. H: 20μsec/div. M4.00µs A Ch1 / 260n M[10.0µs] A| Ch1 ♪ 2.56 V M[20.0µs] A| Ch1 F 2.56 V M(20.0µs) A Ch1 ✓ 1.75 V **24** IC6201-pin 54 V: 500mV/div. H: 4μsec/div. **29** IC4806-pin 66 V: 500mV/div. H: 10μsec/div. **34** IC4806-pin 8 V: 500mV/div. H: 20μsec/div. **39** IC4806-pin 34 V: 500mV/div. H: 20μsec/div. M4.00µs A Ch1 ≠ 260mV M 10.0µs A Ch1 5 2.56 V M(20.0µs) A Ch1 & 2.56 V M(20.0µs) A| Ch1 ♪ 1.75 V **25** IC4806-pin 94 V: 500mV/div. H: 10μsec/div. **30** IC4806-pin 68 V: 500mV/div. H: 10μsec/div. **35** IC4806-pin 10 V: 500mV/div. H: 20μsec/div. **40** IC6003-pin 160 V: 500mV/div. H: 20μsec/div. M 10.0µs A Ch1 ✓ 2.56 V M 20.0µs A Ch1 ✓ 2.56 V

PDP-R06XE

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PDP-R06XE

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7.1.2 DISASSEMBLY

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

For PDP-R06XE Model

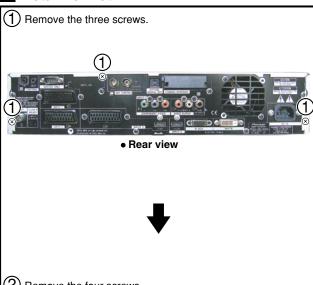
1 Metal Bonnet

В

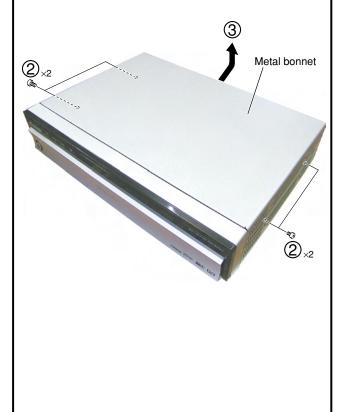
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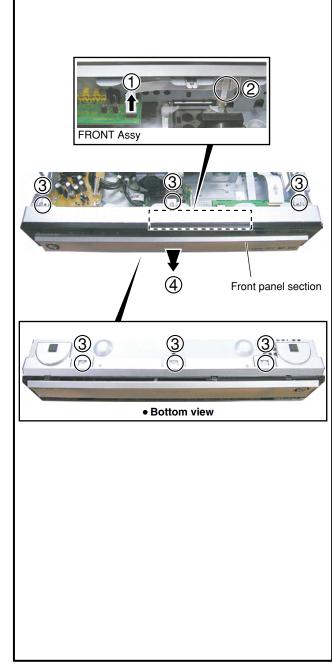


- (2) Remove the four screws.
- $\widehat{\mathbf{3}}$ Remove the metal bonnet while pulling it backward.

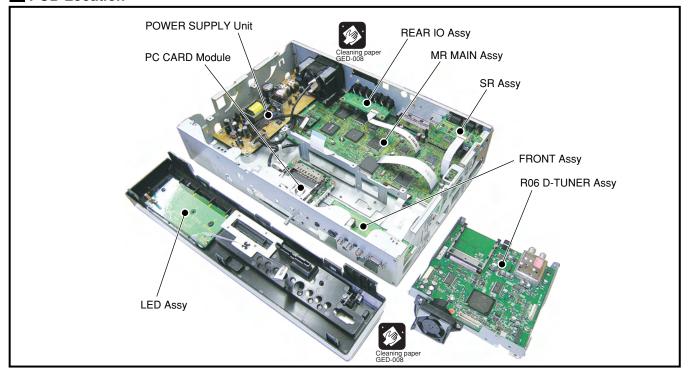


2 Front Panel Section

- 1 Disconnect the flexible cable.
- (2) Remove the flexible cable from the flat clamp.
- 3 Unhook the six hooks.
- 4 Remove the front panel section.



PCB Location



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PDP-R06XE

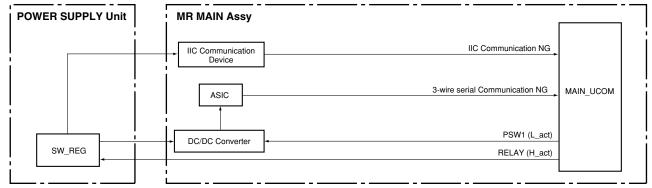
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7.2 EXPLANATION 7.2.1 PROCESSING IN ABNORMALITY

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Power supply and DC-DC converter

Circuit diagram

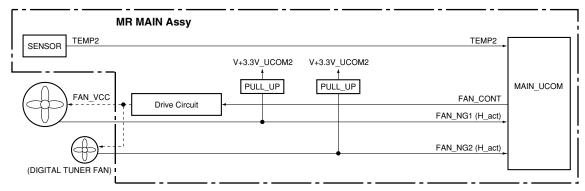


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Fan and temperature sensor

Circuit diagram

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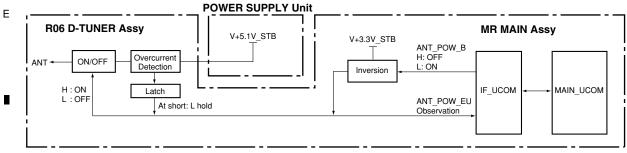


Specifications for port monitoring

| Port Name | SD/PD Indication | Assigned Pin | Active |
|-----------|---------------------------------------|--------------|---|
| FAN_NG 1 | FAN | 155 | Shutdown with H |
| FAN_NG 2 | FAN | 104 | Shutdown with H |
| TEMP2 | Abnormally high temperature in the MR | 76 | Shutdown when the value exceeds the predetermined value |

Power supply for DTB Antenna

Circuit diagram



Specifications for port monitoring

| Port Name | SD/PD Indication | Assigned Pin | Active |
|-----------|------------------------------|--------------|----------------|
| | DTB antenna short-circuit | IF_37 | Warning with L |

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■ LED-lighting patterns

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* In this case, the red and green areas on the screen of the panel flash alternately.

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| No. of LEDs on t | times of | No. of times of LED flashing Ds on the panel LEDs on the IV | LEDs on the panel LEDs on the MR | Category | Site detected as | Possible defective points (representative examples) | OSD when detected |
| RED | Blue | RED | Blue | * | derective | | (warning message) |
| | Blue 1 | Red | | | Panel drive IC | *2 | None |
| | Blue 2 | Red | | | Module section IIC | Z* | None |
| | Blue 3 | Red | | | | | None |
| | Blue 4 | Red | | | Panel having abnormally high temperature | *5 | Powering off. Internal temperatures is too high. Chheck temperatures around PDP. (SD04) *6 |
| | Blue 5 | Red | | | Short-circuiting of the speakers | ₹. | Internal protection circuit turns off. Is there a short in speaker cable? (SD05). |
| Red | | | Blue 6 | | Module microcomputer | Disconnection of the system cable Desconnection of the service manual of the PDP-436PE or Defective model microcomputer or its peripheral circuits of the panel (Refer to the service manual of the PDP-436PE or Defective main microcomputer (IC5206) Fallure in communication (TXD_MD, RXD_MD, REQ_MD) between the panel's module microcomputer and IC5206 (main microcomputer) | None |
| Red | | | Blue 7 | | 3-wire serial connection of the main section | Defective IC5002 or its peripheral circuits Fallure in communication (TXD_IF, RXD_IF, CLK_IF, CE_IF, BUSY_IF) between IC5002 and IC5207 (main microcomputer) Defective IC7001 or its peripheral circuits Fallure in communication (TXD_IC3, RXD_IC3, CLK_IC3, CE_IC3, REQ_IC3, BUSY_IC3) between IC7001 and IC5206 (main microcomputer) | None |
| Be d | | | Blue 8 | S | IIC of the main section | Defective U4401 (FEI) or its peripheral circuits Defective UA401 (FEI) or its peripheral circuits Defective UA401 (MPX) or its peripheral circuits Defective (LA401 (MPX) or its peripheral circuits Defective (LA406 (ROB_SW) or its peripheral circuits Defective (LA906 (ROB_SW) or its peripheral circuits Defective (LOX00 (ROB_SW) or its peripheral circuits Defective (DX00 (ROB_SW) or its peripheral circuits) Defective (DX00 (ROB_SW) or its peripheral circuits) | None |
| Red | | | Blue 9 | | Main microcomputer | Defective IC5206 (main microcomputer) Defective flexible cable for communication between the MR MAIN BOARD Assy and the AV BOARD Assy Failure in communication (TXD_IF, RXD_IF, CLK_IF, CE_IF, REQ_IF, BUSY_IF) between IC5206 (main microcomputer) and IC5002 | None |
| Red | | | Blue 10 | | Fan | Failure in the fan motor, or the fan stopped because of dust attached to the fan | None |
| Red | | | Blue 11 | | MR or unit having abnormally high temperature | The Media Receiver or the unit being used at high temperature | Powering off. Internal temperature is too high. Check temperature around media receiver. (SD11) |
| Red | | | Blue 12 | | Digital tuner | Defective DTV tuner *5 | None |
| Red | | | Blue 13 | | ASIC power supply (DC-DC) | Defective U4201 (DD_CON) or short-circuiting elsewhere *6 | None |
| Red 2 | | Red | | | Œ | \\ \tag{4} | None |
| Red 3 | | Bed. | | | | Z* | None |
| Red 4 | | Red | | | SCN-5V Y-DRV | *2 *1: Shutdown (SD) is a protective operation controlled by the | None None |
| Red 6 | | Red | | | Y-DCDC | | None |
| Red 7 | | Red | | 8 | | | None |
| Red 8 | | Red | | | | *2 the circuitry and can be reset after AC power is off for about 1 minute. | None |
| Red 9 | | Red | | | X-DCDC | *2 *2: Herer to the service manual of the PDF-430PE of PDF-506PE. *2 *3: Only for US model. | None None |
| Red 11 | | Red | | | X-SUS | | None |
| Red 13 | | Red | | | | | None |
| Red 15 | | Red | | | UNKNOWN | *2 | None |

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PDP-R06XE

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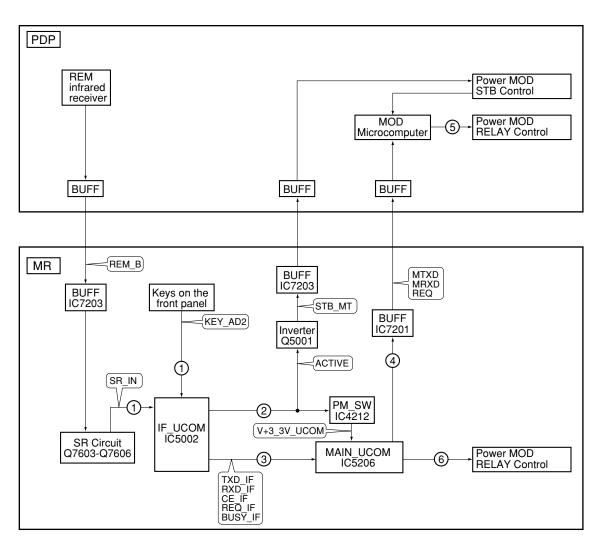
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Descriptions in a call-out are signal names for reference.
For wiring numbers on the PDP side, refer to the service manual for the PDP.

- ①: The signal from the remote control unit (or a key signal) is input to the IF microcomputer.
- ②: The IF microcomputer supplies the power to the main microcomputer and MOD microcomputer.
- ③: The IF microcomputer transmits operation data from the remote control unit (or keys) to the main microcomputer.
- ④: The main microcomputer issues a startup command to the MOD microcomputer.
- ⑤: The MOD microcomputer controls the relay of the PDP Power MOD and starts the power-on sequence of the PDP.
- 6 : The main microcomputer controls the relay of the MR Power MOD and starts the power-on sequence of the MR.

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■ 3

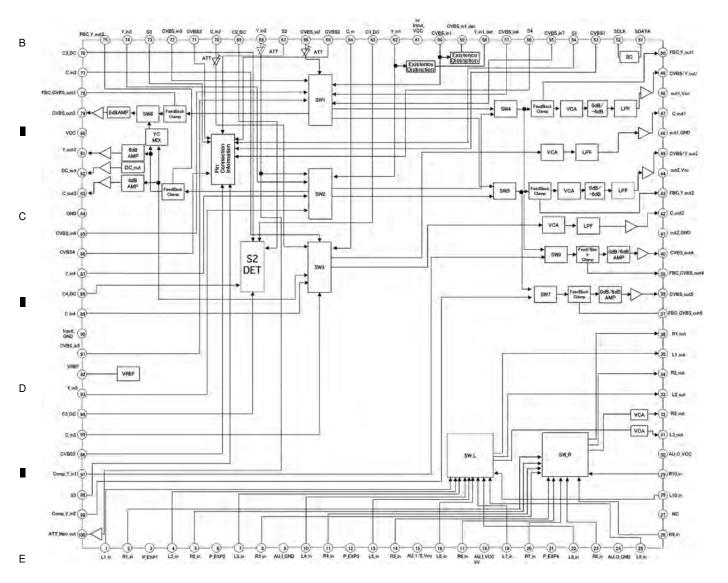
A • The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

List of IC

R2S11002AFT, R2S11001FT, K4S641632H-TC75, S29AL016D70TFI010, UPD64015AGM-UEU, TVP5150AM1PBS, K4S161622H-TC60, AD9985KSTZ-110, SII9021CTU, K4S643232H-TC60, S29JL032H70TFI21, SII170BCLG64, AXF1149, AXY1117

■ R2S11002AFT (MR MAIN ASSY: IC4804)

- AV SW
- Block Diagram



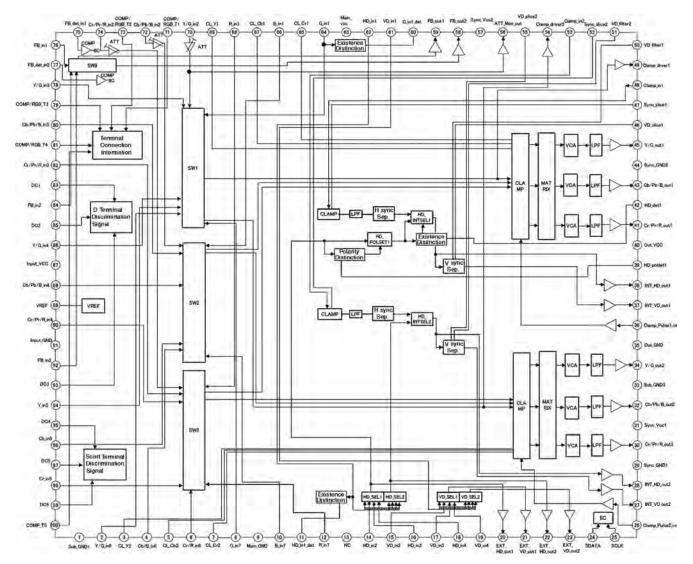
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■ R2S11001FT (MR MAIN ASSY: IC4806)

• Component SW IC

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Block Diagram



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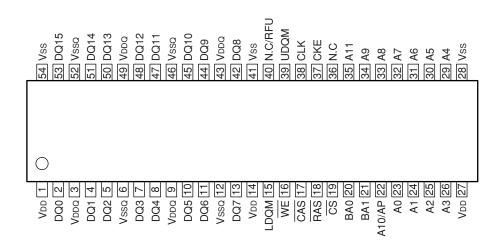
PDP-R06XE

■ K4S641632H-TC75 (MR MAIN ASSY : IC5403)

• 64M SDRAM

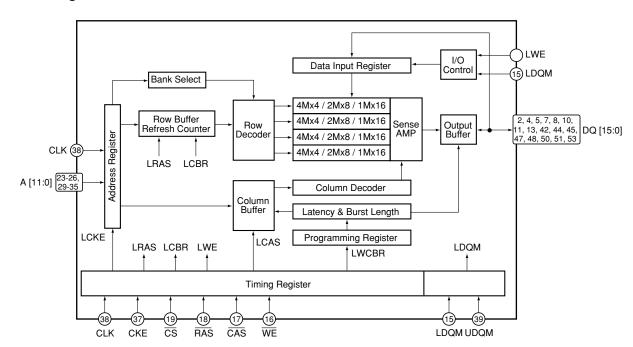
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Pin Arrangement (Top view)



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Block Diagram



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PDP-R06XE

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Pin Function

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| No. | Pin Name | I/O | Pin Function | No. | Pin Name | I/O | Pin Function |
|-----|----------|-----|------------------------------|-----|----------|-----|---|
| 1 | VDD | _ | Power supply | 28 | Vss | 1 | Ground |
| 2 | DQ0 | I/O | Data input/output | 29 | A4 | _ | Address input |
| 3 | VDDQ | - | Power supply for data output | 30 | A5 | _ | Address input |
| 4 | DQ1 | I/O | Data input/output | 31 | A6 | _ | Address input |
| 5 | DQ2 | I/O | Data input/output | 32 | A7 | - 1 | Address input |
| 6 | Vssq | - | Ground for data output | 33 | A8 | - 1 | Address input |
| 7 | DQ3 | I/O | Data input/output | 34 | A9 | - 1 | Address input |
| 8 | DQ4 | I/O | Data input/output | 35 | A11 | _ | Address input |
| 9 | VDDQ | _ | Power supply for data output | 36 | N.C | 1 | No connection |
| 10 | DQ5 | I/O | Data input/output | 37 | CKE | - 1 | Clock enable input |
| 11 | DQ6 | I/O | Data input/output | 38 | CLK | - 1 | System clock input |
| 12 | Vssq | _ | Ground for data output | 39 | UDQM | - 1 | Data input/output mask |
| 13 | DQ7 | I/O | Data input/output | 40 | N.C/RFU | 1 | No connection (Reserved for future use) |
| 14 | VDD | - | Power supply | 41 | Vss | - | Ground |
| 15 | LDQM | 1 | Data input/output mask | 42 | DQ8 | I/O | Data input/output |
| 16 | WE | 1 | Write enable input | 43 | VDDQ | - | Power supply for data output |
| 17 | CAS | 1 | Column address strobe input | 44 | DQ9 | I/O | Data input/output |
| 18 | RAS | - 1 | Row address strobe input | 45 | DQ10 | I/O | Data input/output |
| 19 | CS | 1 | Chip select input | 46 | Vssq | - | Ground for data output |
| 20 | BA0 | 1 | Bank select address input | 47 | DQ11 | I/O | Data input/output |
| 21 | BA1 | 1 | Bank select address input | 48 | DQ12 | I/O | Data input/output |
| 22 | A10/AP | 1 | Address input | 49 | VDDQ | - | Power supply for data output |
| 23 | A0 | ı | Address input | 50 | DQ13 | I/O | Data input/output |
| 24 | A1 | 1 | Address input | 51 | DQ14 | I/O | Data input/output |
| 25 | A2 | ı | Address input | 52 | Vssq | _ | Ground for data output |
| 26 | A3 | 1 | Address input | 53 | DQ15 | I/O | Data input/output |
| 27 | VDD | _ | Power supply | 54 | Vss | _ | Ground |

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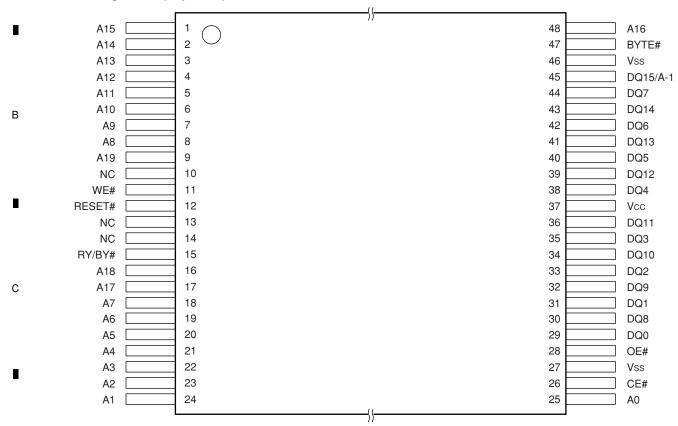
■ S29AL016D70TFI010 (MR MAIN ASSY : IC5404)

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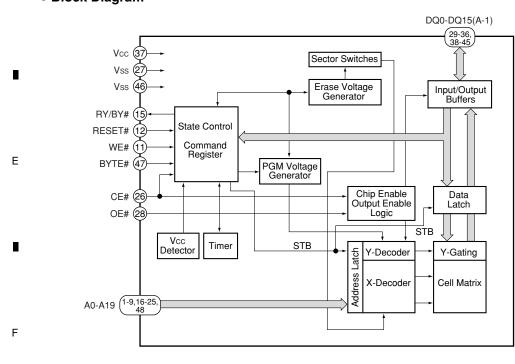
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• 16M Flash Memory

Pin Arrangement (Top view)



Block Diagram



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Pin Function

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| No. | Pin Name | I/O | Pin Function | No. | Pin Name | I/O | Pin Function |
|-----|----------|-----|-------------------|-----|----------|-----|---|
| 1 | A15 | ı | Address input | 25 | A0 | 1 | Address input |
| 2 | A14 | ı | Address input | 26 | CE# | 1 | Chip enable |
| 3 | A13 | ı | Address input | 27 | Vss | 1 | Device ground |
| 4 | A12 | ı | Address input | 28 | OE# | 1 | Output enable |
| 5 | A11 | ı | Address input | 29 | DQ0 | I/O | Data input/output |
| 6 | A10 | ı | Address input | 30 | DQ8 | I/O | Data input/output |
| 7 | A9 | I | Address input | 31 | DQ1 | I/O | Data input/output |
| 8 | A8 | ı | Address input | 32 | DQ9 | I/O | Data input/output |
| 9 | A19 | ı | Address input | 33 | DQ2 | I/O | Data input/output |
| 10 | NC | _ | No connection | 34 | DQ10 | I/O | Data input/output |
| 11 | WE# | ı | Write enable | 35 | DQ3 | I/O | Data input/output |
| 12 | RESET# | ı | Hardware reset | 36 | DQ11 | I/O | Data input/output |
| 13 | NC | _ | No connection | 37 | Vcc | _ | 3V single power supply |
| 14 | NC | _ | No connection | 38 | DQ4 | I/O | Data input/output |
| 15 | RY/BY# | 0 | Ready/Busy output | 39 | DQ12 | I/O | Data input/output |
| 16 | A18 | ı | Address input | 40 | DQ5 | I/O | Data input/output |
| 17 | A17 | ı | Address input | 41 | DQ13 | I/O | Data input/output |
| 18 | A7 | ı | Address input | 42 | DQ6 | I/O | Data input/output |
| 19 | A6 | ı | Address input | 43 | DQ14 | I/O | Data input/output |
| 20 | A5 | I | Address input | 44 | DQ7 | I/O | Data input/output |
| 21 | A4 | 1 | Address input | 45 | DQ15/A-1 | I/O | DQ15: Data input/output, word mode A-1: LSB address input, byte mode |
| 22 | A3 | ı | Address input | 46 | Vss | _ | Device ground |
| 23 | A2 | ı | Address input | 47 | BYTE# | - 1 | Selects 8-bit or 16-bit mode |
| 24 | A1 | 1 | Address input | 48 | A16 | I | Address input |

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■ UPD64015AGM-UEU (MR MAIN ASSY : IC6003)

Video Decoder (for main screen)

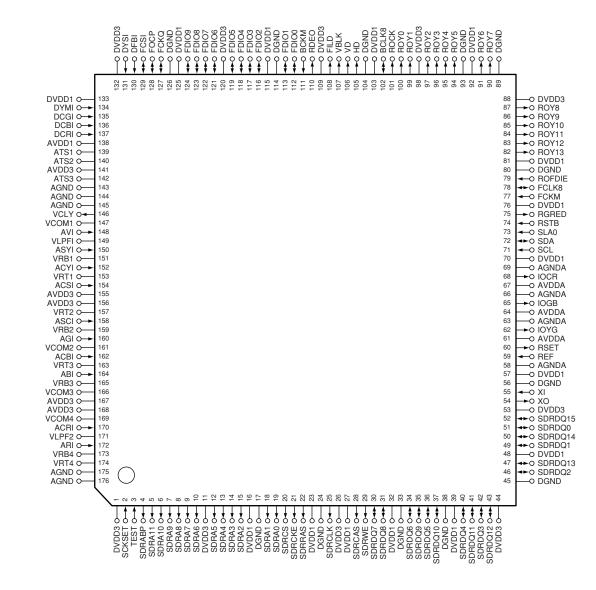
Pin Arrangement (Top view)

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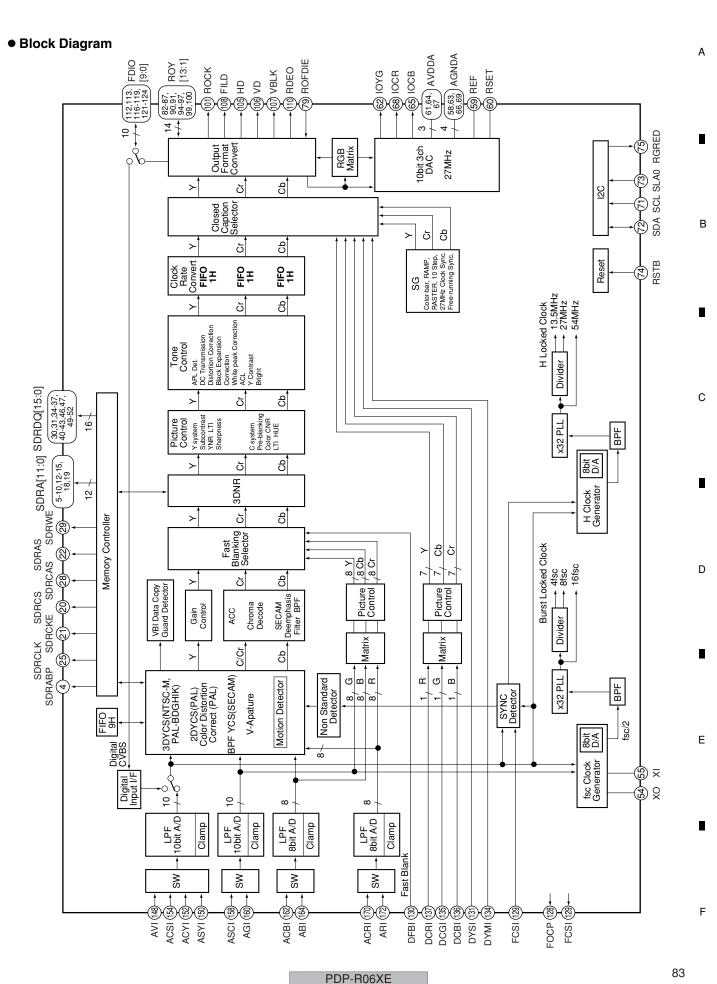
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• Pin Function

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| No. | Pin Name | I/O | Pin Function | | |
|----------|-------------------|-----|--|--|--|
| 1 | DVDD3 | _ | Digital power supply (3.3V) | | |
| 2 | SCKSET | ı | Test mode selection (L: Normal, H: Test mode) | | |
| 3 | TEST | ı | Test setting (L: Normal, H: Test mode) | | |
| 4 | SDRABP | 0 | All bank precharge output for external memory (Active High) | | |
| 5 | SDRA11 | 0 | Address output for external memory | | |
| 6 | SDRA10 | 0 | Address output for external memory | | |
| 7 | SDRA9 | 0 | Address output for external memory | | |
| 8 | SDRA8 | 0 | Address output for external memory | | |
| 9 | SDRA7 | 0 | Address output for external memory | | |
| 10 | SDRA6 | 0 | Address output for external memory | | |
| 11 | DVDD3 | - | Digital power supply (3.3V) | | |
| 12 | SDRA5 | 0 | Address output for external memory | | |
| 13 | SDRA4 | 0 | Address output for external memory | | |
| 14 | SDRA3 | 0 | Address output for external memory | | |
| 15 | SDRA2 | 0 | Address output for external memory | | |
| 16 | DVDD1 | _ | Digital power supply (1.5V) | | |
| 17 | DGND | _ | Digital ground | | |
| 18 | SDRA1 | 0 | Address output for external memory | | |
| 19 | SDRA0 | 0 | Address output for external memory | | |
| 20 | SDRCS | 0 | Chip select output for external memory (Active Low) | | |
| 21 | SDRCKE | 0 | | | |
| 22 | SDRRAS | 0 | Clock enable output for external memory (Active High) | | |
| 23 | DVDD1 | _ | Row address strobe output for external memory (Active Low) | | |
| H- | DGND | | Digital power supply (1.5V) | | |
| 24 | | _ | Digital ground | | |
| 25 26 | SDRCLK DVDD3 | 0 | Clock output for external memory | | |
| 27 | DVDD3 | | Digital power supply (3.3V) | | |
| 28 | SDRCAS | 0 | Digital power supply (1.5V) Column address strobe output for external memory (Active Low) | | |
| 29 | SDRWE | 0 | Write enable output for external memory (Active Low) | | |
| 30 | SDRWL SDRDQ7 | 1/0 | Data input/output for external memory | | |
| 31 | SDRDQ7 SDRDQ8 | 1/0 | Data input/output for external memory | | |
| 32 | DVDD1 | - | Digital power supply (1.5V) | | |
| 33 | DGND | _ | Digital ground | | |
| 34 | SDRDQ6 | 1/0 | | | |
| 35 | SDRDQ6 | 1/0 | Data input/output for external memory Data input/output for external memory | | |
| 36 | SDRDQ9 | 1/0 | Data input/output for external memory | | |
| 37 | SDRDQ3 | 1/0 | Data input/output for external memory | | |
| 38 | DGND | | Digital ground | | |
| 39 | DVDD1 | _ | Digital power supply (1.5V) | | |
| 40 | SDRDQ4 | I/O | Data input/output for external memory | | |
| 41 | SDRDQ4 SDRDQ11 | 1/0 | Data input/output for external memory Data input/output for external memory | | |
| 42 | SDRDQ11 SDRDQ3 | 1/0 | Data input/output for external memory Data input/output for external memory | | |
| 43 | SDRDQ3 | 1/0 | Data input/output for external memory Data input/output for external memory | | |
| 44 | DVDD3 | | Digital power supply (3.3V) | | |
| 45 | DGND | _ | | | |
| 46 | SDRDQ2 | I/O | Digital ground Data input/output for external memory | | |
| 46 | SDRDQ2 SDRDQ13 | 1/0 | Data input/output for external memory Data input/output for external memory | | |
| 48 | DVDD1 | 1/0 | Digital power supply (1.5V) | | |
| 49 | SDRDQ1 | I/O | Data input/output for external memory | | |
| 50 | SDRDQ1 | 1/0 | Data input/output for external memory | | |
| 30 | 3DNDQ14 | 1/0 | Data input/output for external memory | | |

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| No. | | | | | | |
|-----|----------|-----|--|--|--|--|
| _ | Pin Name | I/O | Pin Function | | | |
| | SDRDQ0 | I/O | Data input/output for external memory | | | |
| | SDRDQ15 | I/O | Data input/output for external memory | | | |
| | DVDD3 | - | Digital power supply (3.3V) | | | |
| | XO | 0 | Reference clock output Connect a 24.576MHz crystal. | | | |
| | XI | I | Reference clock input Connect a 24.576MHz crystal. | | | |
| | DGND | _ | Digital ground | | | |
| | DVDD1 | _ | Digital power supply (1.5V) | | | |
| | AGNDA | _ | Analog ground for DAC | | | |
| | REF | I | External reference input | | | |
| 60 | RSET | 0 | Connect a 620 ohm resistor for external adjustment to AGND | | | |
| | AVDDA | - | Analog power supply for DAC (3.3V) | | | |
| 62 | IOYG | 0 | Color-difference component Y / RGB component G output signal | | | |
| 63 | AGNDA | - | Analog ground for DAC | | | |
| 64 | AVDDA | - | Analog power supply for DAC (3.3V) | | | |
| 65 | IOGB | 0 | Color-difference component Cb / RGB component B output signal | | | |
| 66 | AGNDA | - | Analog ground for DAC | | | |
| 67 | AVDDA | _ | Analog power supply for DAC (3.3V) | | | |
| 68 | IOCR | 0 | Color-difference component Cr / RGB component R output signal | | | |
| 69 | AGNDA | _ | Analog ground for DAC | | | |
| 70 | DVDD1 | _ | Digital power supply (1.5V) | | | |
| 71 | SCL | ı | 1 ² C bus clock input Connect to SCL line of the system. | | | |
| 72 | SDA | I/O | 1 ² C bus data input/output Connect to SDA line of the system. | | | |
| 73 | SLA0 | ı | 12C bus slave address select input (L: B8h/B9h, H: BAh/BBh) | | | |
| 74 | RSTB | ı | System reset input (Active Low) | | | |
| 75 | RGRED | 0 | I ² C register read flag output (Active Low) | | | |
| 76 | DVDD1 | - | Digital power supply (1.5V) | | | |
| 77 | FCKM | 1 | FCLK8 test mode selection (L: Normal, H: Test mode) | | | |
| 78 | FCLK8 | I/O | Line-lock clock monitor input/output | | | |
| 79 | ROFDIE | 1 | Output enable of the video input/output terminal L: Output terminal Hi-Z, H: Output enable | | | |
| 80 | DGND | _ | Digital ground | | | |
| 81 | DVDD1 | _ | Digital power supply (1.5V) | | | |
| 82 | ROY13 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 83 | ROY12 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 84 | ROY11 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 85 | ROY10 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 86 | ROY9 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 87 | ROY8 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 88 | DVDD3 | - | Digital power supply (3.3V) | | | |
| 89 | DGND | - | Digital ground | | | |
| 90 | ROY7 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 91 | ROY6 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 92 | DVDD1 | _ | Digital power supply (1.5V) | | | |
| 93 | DGND | - | Digital ground | | | |
| 94 | ROY5 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 95 | ROY4 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 96 | ROY3 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 97 | ROY2 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 98 | DVDD3 | _ | Digital power supply (3.3V) | | | |
| 99 | ROY1 | 0 | Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output | | | |
| 100 | ROY0 | 0 | Digital ITU-R BT. 656/component output | | | |

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| No. | Pin Name | I/O | Pin Function | | | |
|----------|----------|--|---|--|--|--|
| 101 | ROCK | 0 | Clock for digital ITU-R BT. 656/component output | | | |
| 102 | BCLK8 | I/O | Line-lock clock monitor input/output | | | |
| 103 | DVDD1 | _ | Digital power supply (1.5V) | | | |
| 104 | DGND | _ | Digital ground | | | |
| 105 | HD | 0 | Horizontal sync. signal output | | | |
| 106 | VD | 0 | Vertical sync. signal output | | | |
| 107 | VBLK | 0 | V blanking output | | | |
| 108 | FILD | 0 | Field output | | | |
| 109 | DVDD3 | _ | Digital power supply (3.3V) | | | |
| 110 | RDEO | 0 | Effective pixel area output | | | |
| 111 | BCKM | I | Test mode selection of BCLK8 pin (L: Normal, H: Test mode) | | | |
| 112 | FDIO0 | I/O | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| 113 | FDIO1 | I/O | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| \vdash | DGND | _ | Digital ground | | | |
| — | DVDD1 | <u> </u> | Digital power supply (1.5V) | | | |
| | FDIO2 | I/O | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| | FDIO3 | 1/0 | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| — | FDIO4 | 1/0 | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| | FDIO5 | 1/0 | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| | DVDD3 | - | Digital power supply (3.3V) | | | |
| <u> </u> | FDIO6 | 1/0 | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| - | FDIO7 | 1/0 | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| - | FDIO8 | 1/0 | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| | FDIO9 | 1/0 | Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use. | | | |
| — | DVDD1 | - | Digital power supply (1.5V) | | | |
| — | DGND | _ | Digital ground | | | |
| 127 | FCKQ | I/O | Sampling clock output for digital connection | | | |
| 128 | FOCP | 1/0 | Clamp pulse output for digital connection / Timing output for digital RGB input (VD) | | | |
| 129 | FCSI | 1/0 | Sync sep. signal input / Timing output for RGB input (HD) | | | |
| 130 | DFBI | 1,70 | Fast blanking signal input for analog RGB input | | | |
| 131 | DYSI | † <u>;</u> | YS signal input for digital RGB input | | | |
| — | DVDD3 | + - | Digital power supply (3.3V) | | | |
| - | DVDD1 | | Digital power supply (1.5V) | | | |
| _ | DYMI | 1 | YM signal input for digital RGB input | | | |
| 135 | DCGI | + † | Digital RGB/G signal input | | | |
| 136 | DCBI | + - | Digital RGB/B signal input | | | |
| | DCRI | | Digital RGB/R signal input | | | |
| _ | AVDD1 | + - | Analog power supply (1.5V) | | | |
| | ATS1 | | Analog test input Normally, connect to GND. | | | |
| 140 | ATS2 | | Analog test input Normally, connect to GND. | | | |
| 141 | AVDD3 | +- | Analog power supply (3.3V) | | | |
| — | ATS3 | | Analog test input Normally, connect to GND. | | | |
| | AGND | +- | Analog ground | | | |
| | AGND | + | Analog ground | | | |
| | AGND | +- | Analog ground | | | |
| 146 | VCLY | 0 | ADC1 clamp voltage | | | |
| 147 | VCOM1 | - | ADC1 common-mode reference voltage | | | |
| — | AVI | 1 | ADC1 composite/Y signal input | | | |
| 149 | VLPFI | + - | Analog test output Connect to GND via 0.1µF capacitor. | | | |
| | ASYI | 1 | ADC1 composite/Y signal input | | | |
| _ 130 | /.011 | 1 ' | Price i compositor i signati input | | | |

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| Na | Pin Name | 1/0 | Pin Function | | | |
|-----|----------|----------------|---|--|--|--|
| No. | | I/O | | | | |
| 151 | VRB1 | - | ADC1 bottom reference voltage | | | |
| 152 | ACYI | | ADC1 composite/Y signal input | | | |
| 153 | VRT1 | | ADC1 top reference voltage | | | |
| 154 | ACSI | ı | ADC1 composite/Y signal input | | | |
| 155 | AVDD3 | | Analog power supply for ADC (3.3V) | | | |
| 156 | AVDD3 | _ | Analog power supply for ADC (3.3V) | | | |
| 157 | VRT2 | _ | ADC2 top reference voltage | | | |
| 158 | ASCI | 1 | ADC2 separate C signal input | | | |
| 159 | VRB2 | _ | ADC2 bottom reference voltage | | | |
| 160 | AGI | 1 | DC2 RGB component G signal input | | | |
| 161 | VCOM2 | _ | DC2 common-mode reference voltage | | | |
| 162 | ACBI | I | ADC3 color-difference component Cb signal input | | | |
| 163 | VRT3 | _ | ADC3 top reference voltage | | | |
| 164 | ABI | 1 | ADC3 RGB component B signal input | | | |
| 165 | VRB3 | _ | ADC3 bottom reference voltage | | | |
| 166 | VCOM3 | _ | DC3 common-mode reference voltage | | | |
| 167 | AVDD3 | _ | Analog power supply for ADC (3.3V) | | | |
| 168 | AVDD3 | _ | Analog power supply for ADC (3.3V) | | | |
| 169 | VCOM4 | - | ADC4 common-mode reference voltage | | | |
| 170 | ACRI | 1 | DC4 color-difference component Cr signal input | | | |
| 171 | VLPF2 | _ | nalog test output | | | |
| 172 | ARI | - 1 | ADC3 RGB component R signal input | | | |
| 173 | VRB4 | _ | NDC4 bottom reference voltage | | | |
| 174 | VRT4 | _ | ADC4 top reference voltage | | | |
| 175 | AGND | _ | Analog ground | | | |
| 176 | AGND | - | Analog ground | | | |

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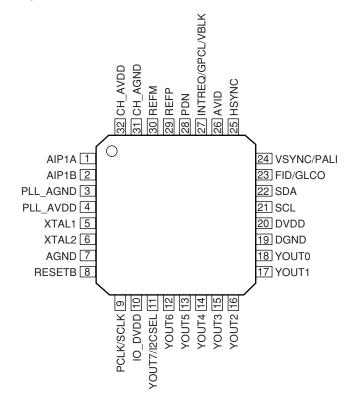
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■ TVP5150AM1PBS (MR MAIN ASSY : IC6001) (PDP-R06XE only)

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• Video Decoder (for Subscreen)

Pin Arrangement (Top view)



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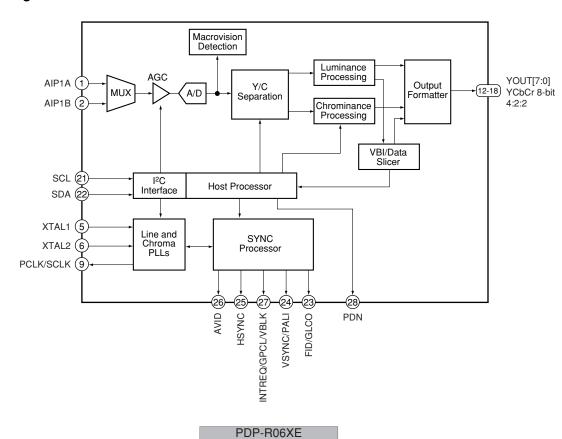
Block Diagram

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Pin Function

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| No. | Pin Name | I/O | Pin Function | | |
|-----|----------------------|-----|--|--|--|
| 1 | AIP1A | ı | Analog input | | |
| 2 | AIP1B | ı | Analog input | | |
| 3 | PLL_AGND | ı | PLL ground Connect to analog ground. | | |
| 4 | PLL_AVDD | ı | PLL power supply (1.8V) | | |
| 5 | XTAL1 | ı | External clock reference | | |
| 6 | XTAL2 | 0 | External clock reference | | |
| 7 | AGND | ı | Substrate Connect to analog ground. | | |
| 8 | RESETB | I | Active-low reset | | |
| 9 | PCLK/SCLK | 0 | System clock at either 1x or 2x the frequency of the pixel clock | | |
| 10 | IO_DVDD | I | Digital power supply (3.3V) | | |
| 11 | YOUT(7)/I2CSEL | I/O | I2CSEL: Determines address for I ² C (sampled during reset) YOUT7: MSB of output decoded ITU-R BT.656 output/YCbCr 4:2:2 output | | |
| 12 | YOUT6 | I/O | Output decoded ITU-R BT.656 output/YCbCr 4:2:2 output with discrete sync | | |
| 13 | YOUT5 | I/O | Output decoded ITU-R BT.656 output/YCbCr 4:2:2 output with discrete sync | | |
| 14 | YOUT4 | I/O | Output decoded ITU-R BT.656 output/YCbCr 4:2:2 output with discrete sync | | |
| 15 | YOUT3 | I/O | Output decoded ITU-R BT.656 output/YCbCr 4:2:2 output with discrete sync | | |
| 16 | YOUT2 | I/O | Output decoded ITU-R BT.656 output/YCbCr 4:2:2 output with discrete sync | | |
| 17 | YOUT1 | I/O | Output decoded ITU-R BT.656 output/YCbCr 4:2:2 output with discrete sync | | |
| 18 | YOUT0 | I/O | Output decoded ITU-R BT.656 output/YCbCr 4:2:2 output with discrete sync | | |
| 19 | DGND | ı | Digital ground | | |
| 20 | DVDD | ı | Digital power supply (1.8V) | | |
| 21 | SCL | I/O | I ² C serial clock (open drain) | | |
| 22 | SDA | I/O | I ² C serial data (open drain) | | |
| 23 | FID/GLCO | 0 | FID: Odd/even field indicator or vertical lock indicator GLCO: This serial output carries color PLL information | | |
| 24 | VSYNC/PALI | 0 | VSYNC: Vertical synchronization signal PALI: PAL line indicator or horizontal lock indicator | | |
| 25 | HSYNC | 0 | Horizontal synchronization signal | | |
| 26 | AVID | 0 | Active video indicator | | |
| 27 | INTREQ/GPCL /VBLK | I/O | INTREQ: Interrupt request output GPCL: General-purpose control logic | | |
| 28 | PDN | ı | Power-down terminal (active low) | | |
| 29 | REFP | ı | A/D reference supply | | |
| 30 | REFM | ı | A/D reference ground | | |
| 31 | CH_AGND | I | Analog ground | | |
| 32 | CH_AVDD | I | Analog power supply (1.8V) | | |

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■ K4S161622H-TC60 (MR MAIN ASSY : IC6002)

• 16M SDRAM (for Main VDEC)

• Pin Arrangement (Top view)

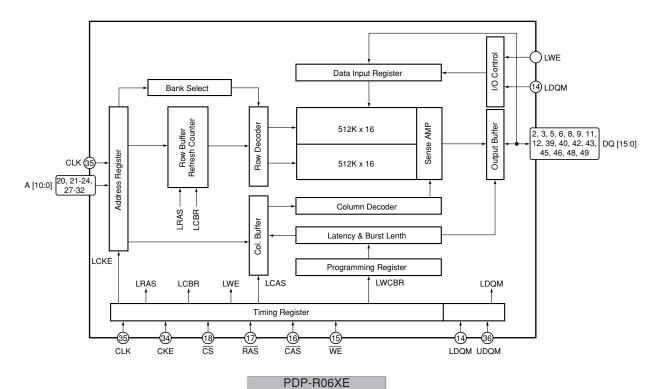
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| V _{DD} □ | 1 | 50 | □ Vss |
|-------------------|----|----|--------------|
| DQ0 □ | 2 | 49 | □ DQ15 |
| DQ1 🗆 | 3 | 48 | □ DQ14 |
| Vssq⊏ | 4 | 47 | □ Vssq |
| DQ2□ | 5 | 46 | □ DQ13 |
| DQ3 □ | 6 | 45 | □ DQ12 |
| | 7 | 44 | ⊐ Vddq |
| DQ4 □ | 8 | 43 | □ DQ11 |
| DQ5 □ | 9 | 42 | □ DQ10 |
| Vssq⊏ | 10 | 41 | ⊐ Vssq |
| DQ6 ⊏ | 11 | 40 | ⊐ DQ9 |
| DQ7□ | 12 | 39 | ⊐ DQ8 |
| | 13 | 38 | ⊐ Vddq |
| LDQM □ | 14 | 37 | □ N.C/RFU |
| WE | 15 | 36 | □ UDQM |
| CAS□ | 16 | 35 | ⊐ CLK |
| RAS □ | 17 | 34 | □ CKE |
| CS□ | 18 | 33 | □ N.C |
| BA□ | 19 | 32 | ⊐ A 9 |
| A10/AP | 20 | 31 | ⊐ A8 |
| A0 □ | 21 | 30 | ⊐ A 7 |
| A1 🗆 | 22 | 29 | ⊐ A6 |
| A2 □ | 23 | 28 | ⊐ A5 |
| A3 □ | 24 | 27 | ⊐ A4 |
| V _{DD} □ | 25 | 26 | ⊐ Vss |
| | | | 1 |

Block Diagram



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• Pin Function

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| No. | Pin Name | I/O | Pin Function | No. | Pin Name | I/O | Pin Function |
|-----|----------|-----|--------------------------------|-----|----------|-----|---|
| 1 | VDD | _ | Power supply | 26 | Vss | _ | Ground |
| 2 | DQ0 | I/O | Data input / output | 27 | A4 | - 1 | Address input |
| 3 | DQ1 | I/O | Data input / output | 28 | A5 | ı | Address input |
| 4 | Vssq | _ | Ground for data output | 29 | A6 | ı | Address input |
| 5 | DQ2 | I/O | Data input / output | 30 | A7 | ı | Address input |
| 6 | DQ3 | I/O | Data input / output | 31 | A8 | - 1 | Address input |
| 7 | VDDQ | _ | Power supply for data output | 32 | A9 | ı | Address input |
| 8 | DQ4 | I/O | Data input / output | 33 | N.C | _ | No connection |
| 9 | DQ5 | I/O | Data input / output | 34 | CKE | ı | Clock enable input |
| 10 | Vssq | _ | Ground for data output | 35 | CLK | ı | System clock input |
| 11 | DQ6 | I/O | Data input / output | 36 | UDQM | ı | Data input / output mask input |
| 12 | DQ7 | I/O | Data input / output | 37 | N.C/RFU | _ | No connection / Reserved for future use |
| 13 | VDDQ | _ | Power supply for data output | 38 | VDDQ | _ | Power supply for data output |
| 14 | LDQM | ı | Data input / output mask input | 39 | DQ8 | I/O | Data input / output |
| 15 | WE | ı | Write enable input | 40 | DQ9 | I/O | Data input / output |
| 16 | CAS | ı | Column address strobe input | 41 | Vssq | - | Ground for data output |
| 17 | RAS | ı | Row address strobe input | 42 | DQ10 | I/O | Data input / output |
| 18 | cs | I | Chip select input | 43 | DQ11 | I/O | Data input / output |
| 19 | ВА | I | Bank select address input | 44 | VDDQ | _ | Power supply for data output |
| 20 | A10/AP | I | Address input | 45 | DQ12 | I/O | Data input / output |
| 21 | A0 | ı | Address input | 46 | DQ13 | I/O | Data input / output |
| 22 | A1 | I | Address input | 47 | Vssq | _ | Ground for data output |
| 23 | A2 | 1 | Address input | 48 | DQ14 | I/O | Data input / output |
| 24 | A3 | I | Address input | 49 | DQ15 | I/O | Data input / output |
| 25 | VDD | _ | Power supply | 50 | Vss | _ | Ground |

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■ AD9985KSTZ-110 (MR MAIN ASSY : IC6201)

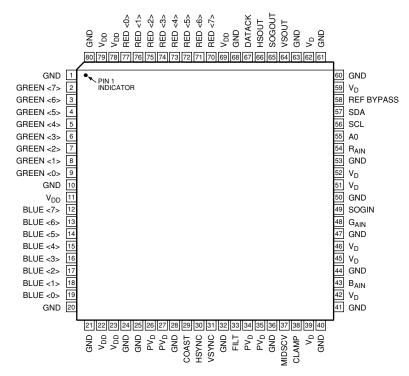
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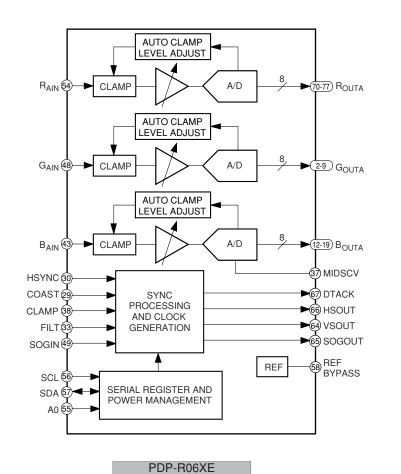
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Pin Arrangement (Top view)



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Block Diagram



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Pin Function

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| Pin Type | No. | PIN Name | Pin Function |
|--------------|--|---------------|--|
| | 54 | Rain | Analog input for converter R |
| | 48 | GAIN | Analog input for converter G |
| | 43 | BAIN | Analog input for converter B |
| lana saka | 30 | HSYNC | Horizontal sync input |
| Inputs | 31 | VSYNC | Vertical sync input |
| | 49 | SOGIN | Input for sync-on green |
| | 38 | CLAMP | Clamp input (External CLAMP signal) |
| | 29 | COAST | PLL COAST signal input |
| | 70-77 | Red [7:0] | Outputs of converter red, bit 7 is the MSB |
| | 2-9 | Green [7 : 0] | Outputs of converter green, bit 7 is the BSB |
| | 12-19 | Blue [7:0] | Outputs of converter blue, bit 7 is the BSB |
| Outputs | 67 | DATACK | Data output clock |
| | 66 | HSOUT | HSYNC output (Phase-aligned with DATACK) |
| | 64 | VSOUT | VSYNC output (Phase-aligned with DATACK) |
| | 65 | SOGOUT | Sync-on-green slicer output |
| | 58 | REF BYPASS | Internal reference bypass |
| Reference | 37 | MIDSCV | Internal midscale voltage bypass |
| | 33 | FILT | Connection for external filter components for internal PLL |
| | 39, 42, 45, 46, 51, 52, 59, 62 | VD | Analog power supply |
| | 11, 22, 23, 69, 78, 79 | VDD | Output power supply |
| Power Supply | 26, 27, 34, 35 | PVD | PLL power supply |
| | 1, 10, 20, 21, 24, 25, 28, 32, 36, 40, 41, 44, 47, 50, 53, 60, 61, 63 68, 80 | GND | Ground |
| | 57 | SDA | Serial port data I/O |
| Control | 56 | SCL | Serial port data clock (100 kHz maximum) |
| | 55 | A0 | Serial port address input 1 |

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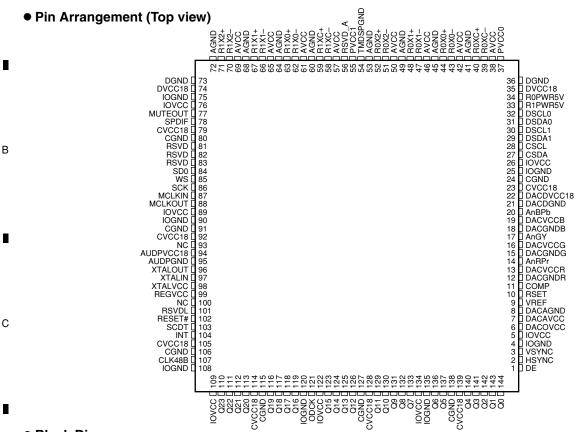
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■ SII9021CTU (MR MAIN ASSY : IC6404)

• HDMI Rx

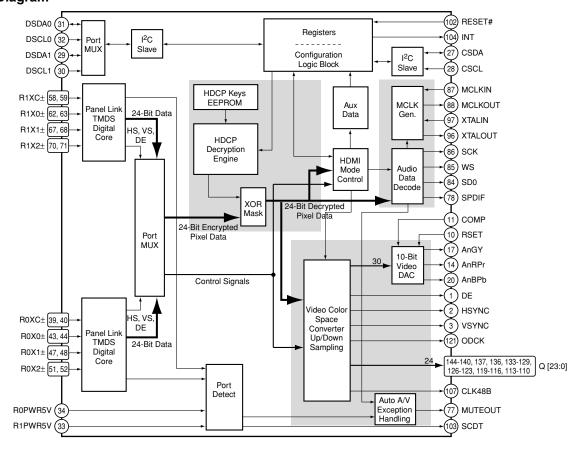
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Block Diagram

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Pin Function

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| No. | Pin Name | I/O | Pin Function |
|-------|-----------|--------------------|---|
| 1 | DE | 0 | Data enable |
| 2 | HSYNC | 0 | Horizontal sync output control signal |
| 3 | VSYNC | 0 | Vertical sync output control signal |
| 4 | IOGND | _ | Input / output pin ground |
| 5 | IOVCC | _ | Input / output pin VCC |
| 6 | DACOVCC | _ | DAC output VCC |
| 7 | DACAVCC | _ | DAC analog VCC |
| 8 | DACAGND | | DAC analog ground |
| 9 | VREF | | |
| 10 | RSET | $+$ $\overline{-}$ | Full scale adjust resistor |
| 11 | COMP | $+$ $\overline{-}$ | Compensation |
| 12 | DACGNDR | + - | DAC red ground |
| 13 | DACVCCR | +- | DAC red VDD |
| 14 | AnRPr | 0 | |
| | DACGNDG | | Analog video red, Pr output DAC green ground |
| 15 | | | DAC green yDD |
| 16 | DACVCCG | - | · · |
| 17 | AnGY | 0 | Analog video green, Y output |
| 18 | DACGNDB | - | DAC blue ground |
| 19 | DACVCCB | | DAC blue VDD |
| 20 | AnBPb | 0 | Analog video blue, Pb output |
| 21 | DACDGND | | DAC digital ground |
| 22 | DACDVCC18 | | DAC digital VCC |
| 23 | CVCC18 | | Digital logic VCC |
| 24 | CGND | | Digital logic ground |
| 25 | IOGND | | Input / output pin ground |
| 26 | IOVCC | | Input / output pin VCC |
| 27 | CSDA | I/O | Configuration I ² C data |
| 28 | CSCL | I | Configuration I ² C clock |
| 29 | DSDA1 | I/O | DDC I ² C data for port 1 |
| 30 | DSCL1 | I | DDC I ² C clock for port 1 |
| 31 | DSDA0 | I/O | DDC I ² C data for port 0 |
| 32 | DSCL0 | | DDC I ² C clock for port 0 |
| 33 | R1PWR5V | I | Port 1 transmitter detect |
| 34 | R0PWR5V | I | Port 0 transmitter detect |
| 35 | DVCC18 | | ACR PLL digital VCC |
| 36 | DGND | | ACR PLL ground |
| 37 | PVCC0 | | TMDS port 0 PLL VCC |
| 38 | AVCC | | TMDS analog VCC |
| 39 | R0XC- | I | TMDS input clock |
| 40 | R0XC+ | I | TMDS input clock |
| 41 | AGND | _ | TMDS analog ground |
| 42 | AVCC | _ | TMDS analog VCC |
| 43 | R0X0- | I | TMDS input data |
| 44 | R0X0+ | I | TMDS input data |
| 45 | AGND | _ | TMDS analog ground |
| 46 | AVCC | | TMDS analog VCC |
| 47 | R0X1- | I | TMDS input data |
| 48 | R0X1+ | 1 | TMDS input data |
| 49 | AGND | _ | TMDS analog ground |
| 50 | AVCC | _ | TMDS analog VCC |

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| Α | No. | Pin Name | I/O | Pin Function |
|---|-----|-----------|-----|--------------------------------------|
| | 51 | R0X2- | 1,0 | TMDS input data |
| | 52 | R0X2+ | i | TMDS input data |
| | 53 | AGND | _ | TMDS analog ground |
| | 54 | TMDSPGND | _ | TMDS PLL ground |
| | 55 | PVCC1 | _ | TMDS port 1 PLL VCC |
| | 56 | RSVD_A | _ | Reserved pin |
| | 57 | AVCC | _ | TMDS analog VCC |
| | 58 | R1XC- | 1 | TMDS input clock |
| В | 59 | R1XC+ | 1 | TMDS input clock |
| Ь | 60 | AGND | _ | TMDS analog ground |
| | 61 | AVCC | _ | TMDS analog VCC |
| | 62 | R1X0- | | TMDS input data |
| | 63 | R1X0+ | 1 | TMDS input data |
| _ | 64 | AGND | _ | TMDS analog ground |
| | 65 | AVCC | _ | TMDS analog VCC |
| | 66 | R1X1- | | TMDS input data |
| | 67 | R1X1+ | 1 | TMDS input data |
| | 68 | AGND | _ | TMDS analog ground |
| | 69 | AVCC | _ | TMDS analog VCC |
| С | 70 | R1X2- | | TMDS input data |
| | 71 | R1X2+ | 1 | TMDS input data |
| | 72 | AGND | _ | TMDS analog ground |
| | 73 | DGND | _ | ACR PLL ground |
| _ | 74 | DVCC18 | _ | ACR PLL digital VCC |
| | 75 | IOGND | _ | Input / output pin ground |
| | 76 | IOVCC | _ | Input / output pin VCC |
| | 77 | MUTEOUT | 0 | Mute audio output |
| | 78 | SPDIF | 0 | S/PDIF audio output |
| | 79 | CVCC18 | _ | Digital logic VCC |
| D | 80 | CGND | _ | Digital logic ground |
| | 81 | RSVD | 0 | _ |
| | 82 | RSVD | 0 | - |
| | 83 | RSVD | 0 | - |
| _ | 84 | SD0 | 0 | I ² S serial data output |
| | 85 | ws | 0 | I ² S word select output |
| | 86 | SCK | 0 | I ² S serial clock output |
| | 87 | MCLKIN | ı | Audio master clock input reference |
| | 88 | MCLKOUT | 0 | Audio master clock output |
| | 89 | IOVCC | _ | Input / output pin VCC |
| Е | 90 | IOGND | _ | Input / output pin ground |
| | 91 | CGND | _ | Digital logic ground |
| | 92 | CVCC18 | _ | Digital logic VCC |
| | 93 | NC | _ | No connection |
| | 94 | AUDPVCC18 | _ | ACR PLL VCC |
| | 95 | AUDPGND | _ | ACR PLL ground |
| | 96 | XTALOUT | 0 | Crystal clock output |
| | 97 | XTALIN | I | Crystal clock input |
| | 98 | XTALVCC | _ | ACR PLL crystal input VCC |
| | 99 | REGVCC | _ | ACR PLL regulator VCC |
| F | 100 | NC | _ | No connection |
| | 100 | INC | - | INO CONNECTION |

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| 5 | 6 | 7 | 8 |
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| No. | Pin Name | I/O | Pin Function | |
|-----|----------|-----|---|--|
| 101 | RSVDL | 1 | Reserved, must be tied LOW | |
| 102 | RESET# | i | Reset pin, active LOW | |
| 103 | SCDT | 0 | Indicates active video at HDMI input port | |
| 104 | INT | 0 | Interrupt output | |
| 105 | CVCC18 | _ | Digital logic VCC | |
| 106 | CGND | | Digital logic ground | |
| 107 | CLK48B | I/O | Data bus latch enable | |
| 108 | IOGND | | Input / output pin ground | |
| 109 | IOVCC | _ | Input / output pin VCC | |
| 110 | Q23 | 0 | 24-bit output pixel data bus | |
| 111 | Q22 | 0 | 24-bit output pixel data bus | |
| 112 | Q21 | 0 | 24-bit output pixel data bus | |
| 113 | Q20 | 0 | 24-bit output pixel data bus | |
| 114 | CVCC18 | _ | Digital logic VCC | |
| 115 | CGND | _ | Digital logic ground | |
| 116 | Q19 | 0 | 24-bit output pixel data bus | |
| 117 | Q18 | 0 | 24-bit output pixel data bus | |
| 118 | Q17 | 0 | 24-bit output pixel data bus | |
| 119 | Q16 | 0 | 24-bit output pixel data bus | |
| 120 | IOGND | _ | Input / output pin ground | |
| 121 | ODCK | 0 | Output data clock | |
| 122 | IOVCC | _ | Input / output pin VCC | |
| 123 | Q15 | 0 | 24-bit output pixel data bus | |
| 124 | Q14 | 0 | 24-bit output pixel data bus | |
| 125 | Q13 | 0 | 24-bit output pixel data bus | |
| 126 | Q12 | 0 | 24-bit output pixel data bus | |
| 127 | CGND | _ | Digital logic ground | |
| 128 | CVCC18 | _ | Digital logic VCC | |
| 129 | Q11 | 0 | 24-bit output pixel data bus | |
| 130 | Q10 | 0 | 24-bit output pixel data bus | |
| 131 | Q9 | 0 | 24-bit output pixel data bus | |
| 132 | Q8 | 0 | 24-bit output pixel data bus | |
| 133 | Q7 | 0 | 24-bit output pixel data bus | |
| 134 | IOVCC | _ | Input / output pin VCC | |
| 135 | IOGND | _ | Input / output pin ground | |
| 136 | Q6 | 0 | 24-bit output pixel data bus | |
| 137 | Q5 | 0 | 24-bit output pixel data bus | |
| 138 | CGND | _ | Digital logic ground | |
| 139 | CVCC18 | _ | Digital logic VCC | |
| 140 | Q4 | 0 | 24-bit output pixel data bus | |
| 141 | Q3 | 0 | 24-bit output pixel data bus | |
| 142 | Q2 | 0 | 24-bit output pixel data bus | |
| 143 | Q1 | 0 | 24-bit output pixel data bus | |
| 144 | Q0 | 0 | 24-bit output pixel data bus | |

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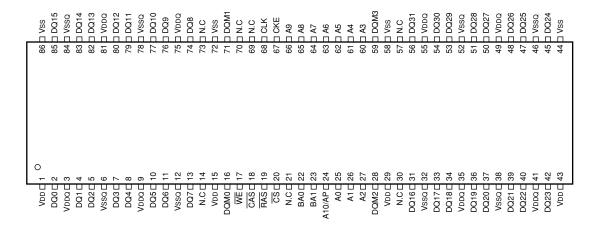
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■ K4S643232H-TC60 (MR MAIN ASSY : IC6801, IC6802)

- 64M SDRAM (for Silvia)
- Pin Arrangement (Top view)

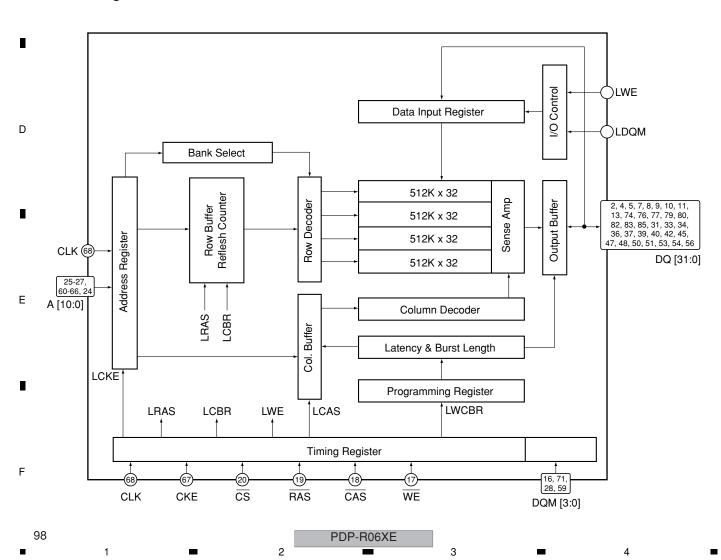


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Block Diagram

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• Pin Function

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| No. | Pin Name | I/O | Pin Function | No. | Pin Name | I/O | Pin Function |
|-----|----------|-----|--------------------------------|-----|----------|-----|--------------------------------|
| 1 | VDD | _ | Power supply | 44 | Vss | _ | Ground |
| 2 | DQ0 | I/O | Data input / output | 45 | DQ24 | I/O | Data input / output |
| 3 | VDDQ | _ | Power supply for data output | 46 | Vssq | _ | Ground for data output |
| 4 | DQ1 | I/O | Data input / output | 47 | DQ25 | I/O | Data input / output |
| 5 | DQ2 | I/O | Data input / output | 48 | DQ26 | I/O | Data input / output |
| 6 | VssQ | _ | Ground for data output | 49 | VDDQ | _ | Power supply for data output |
| 7 | DQ3 | I/O | Data input / output | 50 | DQ27 | I/O | Data input / output |
| 8 | DQ4 | I/O | Data input / output | 51 | DQ28 | I/O | Data input / output |
| 9 | VDDQ | _ | Power supply for data output | 52 | Vssq | _ | Ground for data output |
| 10 | DQ5 | I/O | Data input / output | 53 | DQ29 | I/O | Data input / output |
| 11 | DQ6 | I/O | Data input / output | 54 | DQ30 | I/O | Data input / output |
| 12 | VssQ | _ | Ground for data output | 55 | VDDQ | _ | Power supply for data output |
| 13 | DQ7 | I/O | Data input / output | 56 | DQ31 | I/O | Data input / output |
| 14 | N.C | _ | No connection | 57 | N.C | _ | No connection |
| 15 | VDD | _ | Power supply | 58 | Vss | _ | Ground |
| 16 | DQM0 | ı | Data input / output mask input | 59 | DQM3 | ı | Data input / output mask input |
| 17 | WE | ı | Write enable input | 60 | A3 | ı | Address input |
| 18 | CAS | ı | Column address strobe input | 61 | A4 | ı | Address input |
| 19 | RAS | ı | Row address strobe input | 62 | A5 | ı | Address input |
| 20 | cs | ı | Chip select input | 63 | A6 | ı | Address input |
| 21 | N.C | _ | No connection | 64 | A7 | ı | Address input |
| 22 | BA0 | ı | Bank select address input | 65 | A8 | ı | Address input |
| 23 | BA1 | ı | Bank select address input | 66 | A9 | ı | Address input |
| 24 | A10/AP | ı | Address input | 67 | CKE | ı | Clock enable input |
| 25 | A0 | ı | Address input | 68 | CLK | ı | System clock input |
| 26 | A1 | ı | Address input | 69 | N.C | _ | No connection |
| 27 | A2 | ı | Address input | 70 | N.C | _ | No connection |
| 28 | DQM2 | ı | Data input / output mask input | 71 | DQM1 | ı | Data input / output mask input |
| 29 | VDD | _ | Power supply | 72 | Vss | _ | Ground |
| 30 | N.C | _ | No connection | 73 | N.C | _ | No connection |
| 31 | DQ16 | I/O | Data input / output | 74 | DQ8 | I/O | Data input / output |
| 32 | Vssq | _ | Ground for data output | 75 | VDDQ | _ | Power supply for data output |
| 33 | DQ17 | I/O | Data input / output | 76 | DQ9 | I/O | Data input / output |
| 34 | DQ18 | I/O | Data input / output | 77 | DQ10 | I/O | Data input / output |
| 35 | VDDQ | _ | Power supply for data output | 78 | Vssq | _ | Ground for data output |
| 36 | DQ19 | I/O | Data input / output | 79 | DQ11 | I/O | Data input / output |
| 37 | DQ20 | I/O | Data input / output | 80 | DQ12 | I/O | Data input / output |
| 38 | Vssq | _ | Ground for data output | 81 | VDDQ | _ | Power supply for data output |
| 39 | DQ21 | I/O | Data input / output | 82 | DQ13 | I/O | Data input / output |
| 40 | DQ22 | I/O | Data input / output | 83 | DQ14 | I/O | Data input / output |
| 41 | VDDQ | _ | Power supply for data output | 84 | Vssq | _ | Ground for data output |
| 42 | DQ23 | I/O | Data input / output | 85 | DQ15 | I/O | Data input / output |
| 43 | VDD | _ | Power supply | 86 | Vss | _ | Ground |

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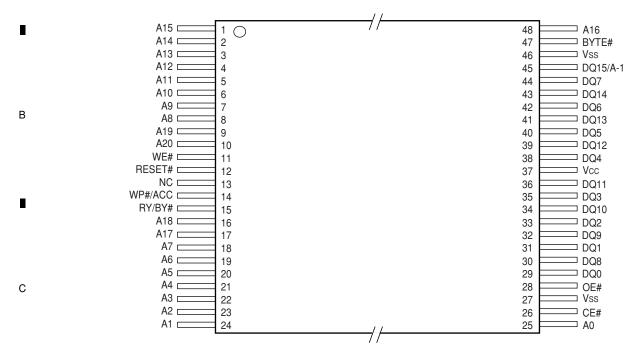
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■ S29JL032H70TFI21 (MR MAIN ASSY : IC7002)

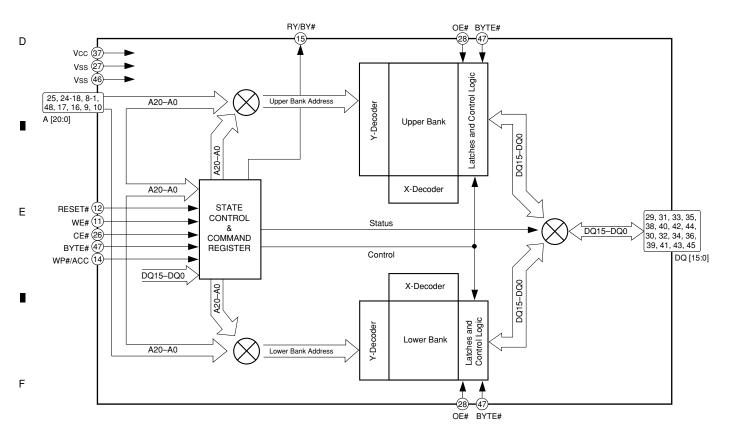
• 32M Flash for Carrera MANTA

• Pin Arrangement (Top view)



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Block Diagram



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• Pin Function

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| No. | Pin Name | I/O | Pin Function |
|-----|----------|--|--|
| 1 | A15 | I | Address input |
| 2 | A14 | I | Address input |
| 3 | A13 | I | Address input |
| 4 | A12 | I | Address input |
| 5 | A11 | I | Address input |
| 6 | A10 | - 1 | Address input |
| 7 | A9 | - 1 | Address input |
| 8 | A8 | - 1 | Address input |
| 9 | A19 | - 1 | Address input |
| 10 | A20 | - 1 | Address input |
| 11 | WE# | - 1 | Write enable input |
| 12 | RESET# | - 1 | Hardware reset, active LOW |
| 13 | NC | _ | No connection |
| 14 | WP#/ACC | - 1 | Hardware write protect / Acceleration |
| 15 | RY/BY# | 0 | Ready / Busy output |
| 16 | A18 | 1 | Address input |
| 17 | A17 | 1 | Address input |
| 18 | A7 | ı | Address input |
| 19 | A6 | ı | Address input |
| 20 | A5 | | Address input |
| 21 | A4 | | Address input |
| 22 | A3 | | Address input |
| 23 | A2 | | Address input |
| 24 | A1 | | Address input |
| 25 | AO | | Address input |
| 26 | CE# | | Chip enable input |
| 27 | Vss | + - | Device ground |
| 28 | OE# | 1 | Output enable input |
| 29 | DQ0 | I/O | Data input / output (x16-only device) |
| 30 | DQ8 | I/O | Data input / output (x16-only device) |
| 31 | DQ1 | I/O | Data input / output (x16-only device) |
| 32 | DQ9 | 1/0 | Data input / output (x16-only device) |
| 33 | DQ2 | 1/0 | Data input / output (x16-only device) |
| 34 | DQ10 | I/O | Data input / output (x16-only device) |
| 35 | DQ3 | I/O | Data input / output (x16-only device) |
| 36 | DQ11 | 1/0 | Data input / output (x16-only device) |
| 37 | Vcc | | 3.0V only single power supply |
| 38 | DQ4 | I/O | Data input / output (x16-only device) |
| 39 | DQ12 | 1/0 | Data input / output (x16-only device) |
| 40 | DQ5 | 1/0 | Data input / output (x16-only device) |
| 41 | DQ13 | 1/0 | Data input / output (x16-only device) |
| 42 | DQ13 | 1/0 | Data input / output (x16-only device) Data input / output (x16-only device) |
| 43 | DQ14 | 1/0 | Data input / output (x16-only device) Data input / output (x16-only device) |
| 43 | DQ14 | 1/0 | Data input / output (x16-only device) Data input / output (x16-only device) |
| 45 | DQ15/A-1 | 1/0 | Data input / output (xro-only device) Data input / output (word mode) / LSB address input (byte mode) |
| 46 | Vss | - 1/0 | Device ground |
| 46 | BYTE# | - | Selects 8-bit or 16-bit mode |
| 47 | A16 | 1 | Address input |
| +0 | 1710 | | nuuross input |

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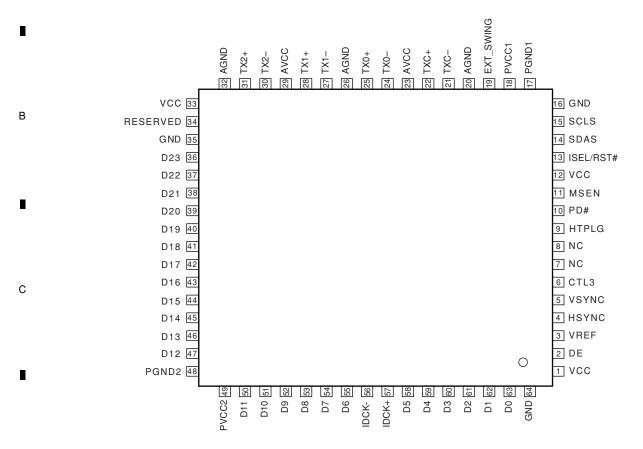
PDP-R06XE 7

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SII170BCLG64 (MR MAIN ASSY : IC7202)

Α

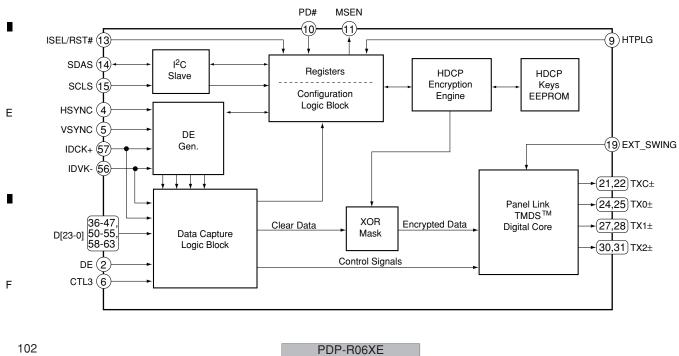
Pin Arrangement (Top view)



3

Block Diagram

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• Pin Function

5

| No. | Pin Name | I/O | Pin Function |
|-----|-----------|-----|---|
| 1 | vcc | _ | Digital power supply (3.3V) |
| 2 | DE | ı | Data enable |
| 3 | VREF | ı | 3.3V fixed |
| 4 | HSYNC | I | Horizontal sync. control signal input |
| 5 | VSYNC | I | Vertical sync. control signal input |
| 6 | CTL3 | I | External CTL3 input |
| 7 | NC | _ | No connection |
| 8 | NC | _ | No connection |
| 9 | HTPLG | ı | Monitor chrage input |
| 10 | PD# | ı | Power down input (Active low) |
| 11 | MSEN | 0 | Monitor sense output (open-collector output) |
| 12 | vcc | _ | Digital power supply (3.3V) |
| 13 | ISEL/RST# | I | I2C interface selecting input High: I2C interface is active |
| 14 | SDAS | I/O | DDC I2C data input/output |
| 15 | SCLS | I | DDC I2C clock input |
| 16 | GND | _ | Digital ground |
| 17 | PGND1 | - | PLL analog ground |
| 18 | PVCC1 | _ | Analog power supply for PLL of primary side (3.3V) |
| 19 | EXT_SWING | I | Voltage regulation adjustment |
| 20 | AGND | _ | Analog ground |
| 21 | TXC- | 0 | Differential signal clock output of TMDS Low voltage |
| 22 | TXC+ | 0 | Differential signal clock output of TMDS Low voltage |
| 23 | AVCC | _ | Analog power supply (3.3V) |
| 24 | TX0- | 0 | Differential signal clock output of TMDS Low voltage |
| 25 | TX0+ | 0 | Differential signal clock output of TMDS Low voltage |
| 26 | AGND | _ | Analog ground |
| 27 | TX1- | 0 | Differential signal clock output of TMDS Low voltage |
| 28 | TX1+ | 0 | Differential signal clock output of TMDS Low voltage |
| 29 | AVCC | _ | Analog power supply (3.3V) |
| 30 | TX2- | 0 | Differential signal clock output of TMDS Low voltage |
| 31 | TX2+ | 0 | Differential signal clock output of TMDS Low voltage |
| 32 | AGND | - | Analog ground |
| 33 | vcc | _ | Digital power supply (3.3V) |
| 34 | RESERVED | I | Reserved pin for Silicon Image Normally, fixed to low. |
| 35 | GND | _ | Digital ground |
| 36 | D23 | I | 24-bit pixel bus input |
| 37 | D22 | I | 24-bit pixel bus input |
| 38 | D21 | I | 24-bit pixel bus input |
| 39 | D20 | I | 24-bit pixel bus input |
| 40 | D19 | I | 24-bit pixel bus input |

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| | No. | Pin Name | I/O | Pin Function |
|---|-----|----------|-----|---|
| | 41 | D18 | 1 | 24-bit pixel bus input |
| | 42 | D17 | I | 24-bit pixel bus input |
| | 43 | D16 | I | 24-bit pixel bus input |
| | 44 | D15 | 1 | 24-bit pixel bus input |
| | 45 | D14 | I | 24-bit pixel bus input |
| | 46 | D13 | - 1 | 24-bit pixel bus input |
| | 47 | D12 | 1 | 24-bit pixel bus input |
| | 48 | PGND2 | - | PLL analog ground |
| | 49 | PVCC2 | - | Analog power supply for filter PLL (3.3V) |
| | 50 | D11 | I | 24-bit / 12-bit pixel bus input |
| | 51 | D10 | 1 | 24-bit / 12-bit pixel bus input |
| | 52 | D9 | - 1 | 24-bit / 12-bit pixel bus input |
| | 53 | D8 | I | 24-bit / 12-bit pixel bus input |
| | 54 | D7 | - 1 | 24-bit / 12-bit pixel bus input |
| | 55 | D6 | - 1 | 24-bit / 12-bit pixel bus input |
| | 56 | IDCK- | I | Data clock - input |
| | 57 | IDCK+ | ı | Data clock + input |
| , | 58 | D5 | - 1 | 24-bit / 12-bit pixel bus input |
| | 59 | D4 | - 1 | 24-bit / 12-bit pixel bus input |
| | 60 | D3 | ı | 24-bit / 12-bit pixel bus input |
| | 61 | D2 | ı | 24-bit / 12-bit pixel bus input |
| | 62 | D1 | I | 24-bit / 12-bit pixel bus input |
| | 63 | D0 | I | 24-bit / 12-bit pixel bus input |
| Ì | 64 | GND | - | Digital ground |

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PDP-R06XE

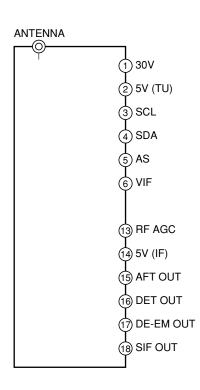
1 2 3 4

AXF1149 (MR MAIN ASSY : U4401)

• Front End

• Pin Arrangement

5



• Pin Function

5

| No. | Pin Name | Pin Function |
|-----|-----------|---|
| 1 | 30V | Power supply for 30V |
| 2 | 5V (TU) | Power supply for tuner |
| 3 | SCL | |
| 4 | SDA | Terminal for I ² C bus control |
| 5 | AS | |
| 6 | VIF | VIF output |
| 13 | RF AFG | RF AGC terminal |
| 14 | 5V (IF) | Power supply for IF |
| 15 | AFT OUT | Analog AFT output |
| 16 | DET OUT | VIDEO output (Typical = 1.0Vp-p) |
| 17 | DE-EM OUT | Audio output |
| 18 | SIF OUT | SIF output |

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PDP-R06XE

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■ AXY1117 (MR MAIN ASSY)

• 3 Outputs DD Control Unit

• Pin Arrangement

14 Vin Vo2 _ 2 13 Vin Vo2 В ☐ 3 GND GND 12 🗌 **GND** ON/OFF GND ☐ 6 11 GND 10 🗌 GND 9 Vo1 С 8 Vo3 □ 7 Vo1

Pin Function

D

Е

| No. | Pin Name | Pin Function | |
|-----|----------|--|--|
| 1 | Vin | In the second se | |
| 2 | Vin | - Input | |
| 3 | GND | | |
| 4 | GND | Ground for input side | |
| 5 | ON/OFF | Output ON/OFF | |
| 6 | GND | Ground for output side | |
| 7 | Vo3 | 1.8V output | |
| 8 | Vo1 | 3.3V output | |
| 9 | Vo1 | 3.3V output | |
| 10 | GND | | |
| 11 | GND | Ground for output side | |
| 12 | GND | | |
| 13 | Vo2 | 1.2V output | |
| 14 | Vo2 | 1.2V output | |

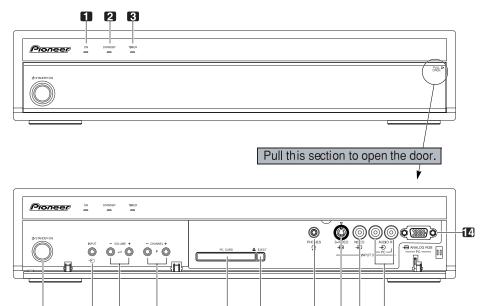
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8. PANEL FACILITIES

8.1 PDP-R06XE

■ Front view



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010 012 013

- 1 POWER ON indicator
- STANDBY indicator
- TIMER indicator
- STANDBY/ON button
- 5 **INPUT** button
- **VOLUME +/-** buttons
- 7 CHANNEL +/- buttons
- 8 PC CARD slot
- 9 PC CARD EJECT button

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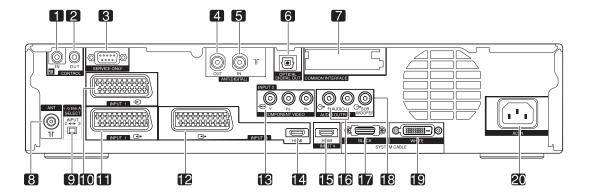
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- 10 PHONES output terminal
- 11 INPUT 5 terminal (S-VIDEO)
- 12 INPUT 5 terminal (VIDEO)
- 13 INPUT 5/PC INPUT terminal (AUDIO)
- 14 PC INPUT terminal (ANALOG RGB)

■ Rear view

4

6 6 7



- 1 **CONTROL IN terminal**
- 2 CONTROL OUT terminal
- **3** RS-232C terminal (used for factory setup)
- **4** ANT OUT terminal (Antenna through out)
- **5** ANT IN terminal (Antenna in for DTV)
 - Power can be supplied through this terminal
- 6 DIGITAL OUT terminal (OPTICAL)
- 7 COMMON INTERFACE slot
 - For a CA Module with a smart card
- 8 ANT (Antenna) input terminal
- 9 i/o link.A SELECT switch

5

- 10 INPUT 1 terminal (SCART)
- 11 INPUT 2 terminal (SCART)
- 12 INPUT 3 terminal (SCART)
- 13 INPUT 2 terminal

(COMPONENT VIDEO: Y, PB, PR)

- **14** INPUT 3 terminal (HDMI)
- 15 INPUT 4 terminal (HDMI)
- 16 AUDIO OUTPUT termimals
- 17 SYSTEM CABLE terminal (BLACK)
- 18 SUB WOOFER OUTPUT terminal
- 19 SYSTEM CABLE terminal (WHITE)
- 20 AC IN terminal

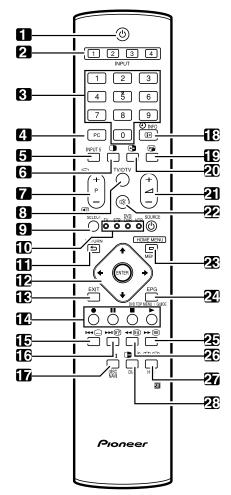
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PDP-R06XE

■ Remote control unit

This section describes the functions of the buttons available when the TV mode has been selected using the **SELECT** button.



1 ტ

Turns on the power to the Plasma Display or places it into the standby mode.

2 INPUT

Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4)

3 0-9

TV/External input mode: Selects a channel. TELETEXT mode: Selects a page.

E 4 PC

Selects the PC terminal as an input source.

5 INPUT 5

Selects INPUT 5 as the input source of the Plasma Display.

6 1

Switches the screen mode among 2-screen, picture-inpicture, and single-screen.

7 P+/P-

TV/External input mode: Selects a channel.

TELETEXT mode: Selects a page.

8 TV/DTV

Switches between the TV and DTV input modes.

9 SELECTSwitches the selection among TV, STB, DVD/DVR, and VCR, so that you can control other equipment in connection, using the supplied remote control unit.

10 TV, STB, DVD/DVR, VCR

These indicators show the current selection and status when you control other equipment in connection using the supplied remote control unit.

11 ⊃ RETURN

Restores the previous menu screen.

12 ♠/♦/♦/→

Selects a desired item on the setting screen.

ENTER

Executes a command.

13 EXIT

Returns to the normal screen in one step.

14 Colour (RED/GREEN/YELLOW/BLUE)

TELETEXT mode: Selects a page.

15 \cdots

TV/External input mode: Jumps to the Teletext subtitle page. DTV input mode: Turns subtitle on and off.

16 🗊

TELETEXT mode: Displays hidden characters.

17 I-II

Sets the sound multiplex mode.

18 🕀 🕘 INFO

TV/External input mode: Displays the channel information. DTV input mode: Displays the banner information.

19 🕝

Moves the location of the small screen when in the picture-in-picture mode.

20 🖸

Switches between the two screens when in the 2-screen or picture-in-picture mode.

21 4+/4-

Sets the volume.

22 🕸

Mutes the sound.

23 HOME MENU

TV/External Input mode: Displays the Menu screen.

24 EPG

Display the Electronic Programme Guide.

25 ⊜

Selects the TELETEXT mode. (all TV image, all TEXT image, TV/TEXT image)

26 **(i)**

TELETEXT mode: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.

27 🕕

TV/External input mode: Selects the screen size.

TELETEXT mode: Switches Teletext images. (full/upper half/lower half)

28

TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.

(¥)

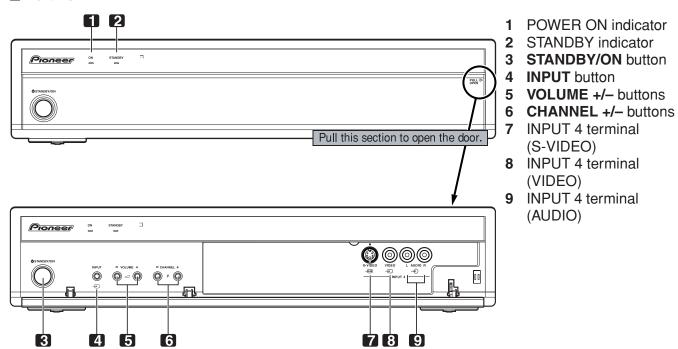
TELETEXT mode: Stops updating Teletext pages. Press again to release the hold mode.

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8.2 PDP-R06FE

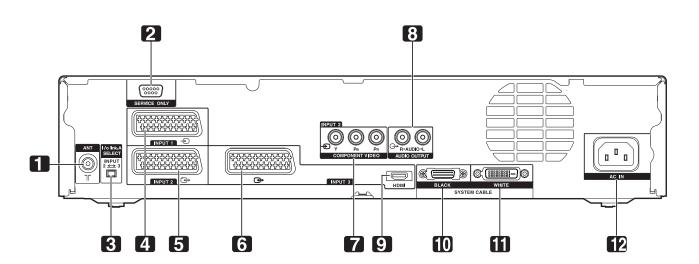
■ Front view



7

6

■ Rear view



- 1 ANT (Antenna) input terminal
- 2 RS-232C terminal (used for factory setup)
- 3 i/o link.A SELECT switch
- 4 INPUT 1 terminal (SCART)
- 5 INPUT 2 terminal (SCART)
- 6 INPUT 3 terminal (SCART)

- 7 INPUT 2 terminals (COMPONENT VIDEO: Y, PB, PR)
- 8 AUDIO OUTPUT termimals
- 9 INPUT 3 terminal (HDMI)
- **10** SYSTEM CABLE terminal (BLACK)
- 11 SYSTEM CABLE terminal (WHITE)
- 12 AC IN terminal

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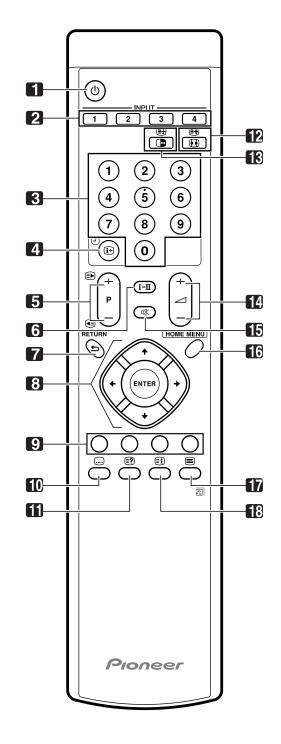
PDP-R06XE

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■ Remote control unit

В



1 🖔

Turns on the power to the Plasma Display or places it into the standby mode.

2 INPUT

3

Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4)

30 - 9

TV/External input mode: Selects a channel. TELETEXT mode: Selects a page.

4 (i+) (i

Displays the channel information.

5 P+/P-

TV/External input mode: Selects a channel.
□ (□)

TELETEXT mode: Selects a page.

6 І-П

Sets the sound multiplex mode.

7 ⊃ RETURN

Restores the previous menu screen.

8 **↑**/**↓**/**♦**/**→**

Selects a desired item on the setting screen.

ENTER

Executes a command.

9 Colour (RED/GREEN/YELLOW/BLUE)

TELETEXT mode: Selects a page.

10

Jumps to the Teletext subtitle page.

11 ፪?

Displays hidden characters.

12 🕕

TV/External input mode: Selects the screen size.

TELETEXT mode: Switches Teletext images. (full/upper half/lower half)

13 🗅

TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.

€

TELETEXT mode: Stops updating Teletext pages. Press again to release the hold mode.

14 🛮 + /🗷 🗕

Sets the volume.

15 🕸

Mutes the sound.

16 HOME MENU

TV/External Input mode: Displays the Menu screen.

17 ■

Selects the TELETEXT mode.

(all TV image, all TEXT image, TV/TEXT image)

18 🗐

TELETEXT mode: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.

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5 В С D Ε 111 PDP-R06XE 5 8

2 3 4

A ■ Cleaning

• Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

| Position to be cleaned | Cleaning tools | Remark |
|------------------------|--------------------------|--|
| Fans | Cleaning paper : GED-008 | Refer to "2.3 EXTERIOR SECTION" , "7.1.2 DISASSEMBLY SECTION". |

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PDP-R06XE

Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3276

MEDIA RECEIVER

PDP-R06XE PDP-R06FE

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Model | Туре | Power Requirement | Remarks |
|-----------|---------|-------------------|---------|
| PDP-R06XE | WYVIXK5 | AC220-240V | |
| PDP-R06FE | WYVI5 | AC220-240V | |
| PDP-R06FE | WYVIXK5 | AC220-240V | |

This service manual should be used together with the following manual(s).

| Model No. | Order No. | Remarks |
|----------------------|-----------|------------------------------------|
| PDP-R06XE, PDP-R06FE | ARP3275 | EXPLODED VIEWS, BLOCK DIAGRAM etc. |



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

SAFETY INFORMATION



В

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

3

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

4

PDP-R06XE

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

5



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

PDP-R06XE

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3.2 MR MAIN ASSY
3.3 MR MAIN ASSY

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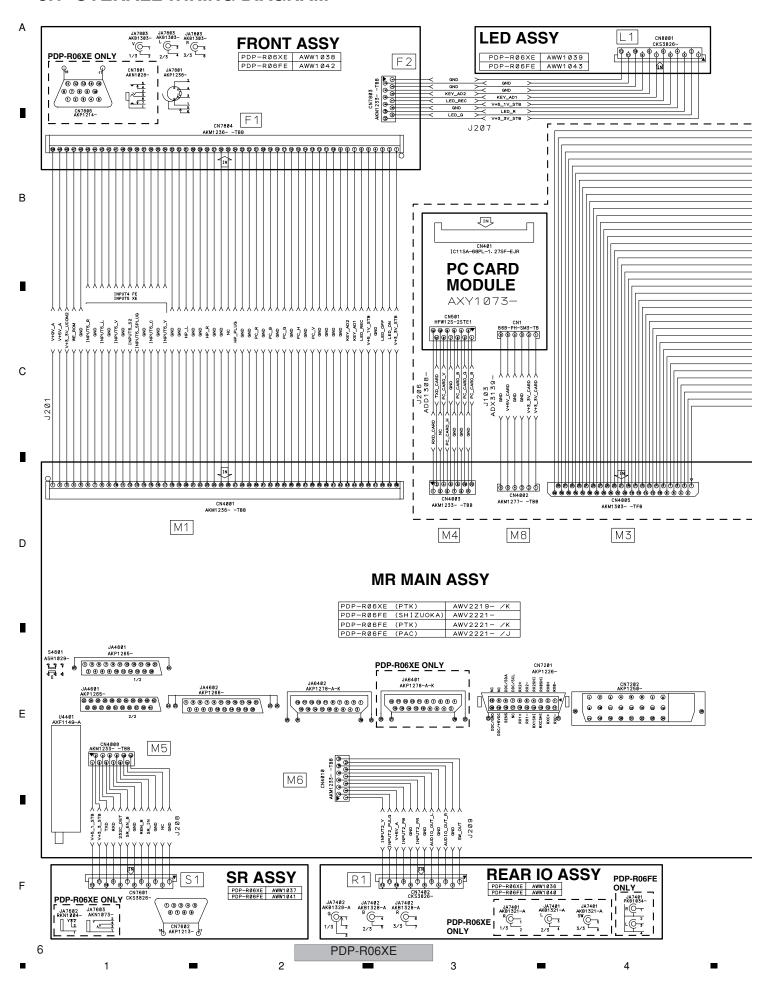
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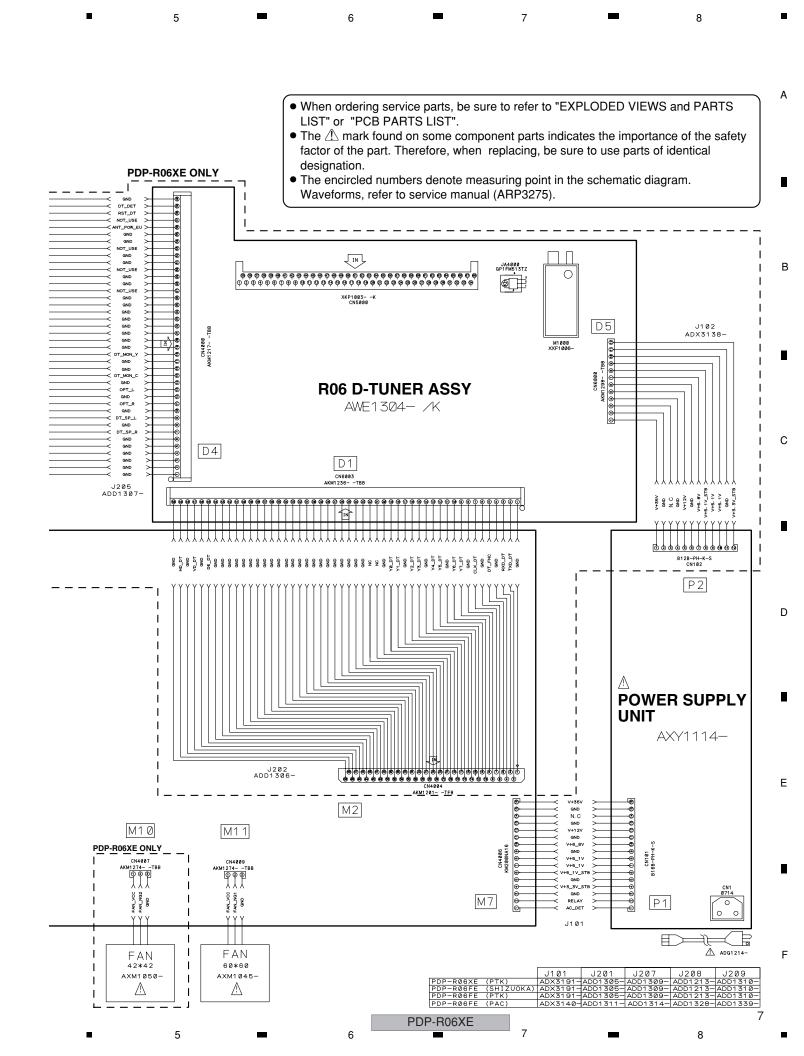
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3. SCHEMATIC DIAGRAM

3.1 OVERALL WIRING DIAGRAM



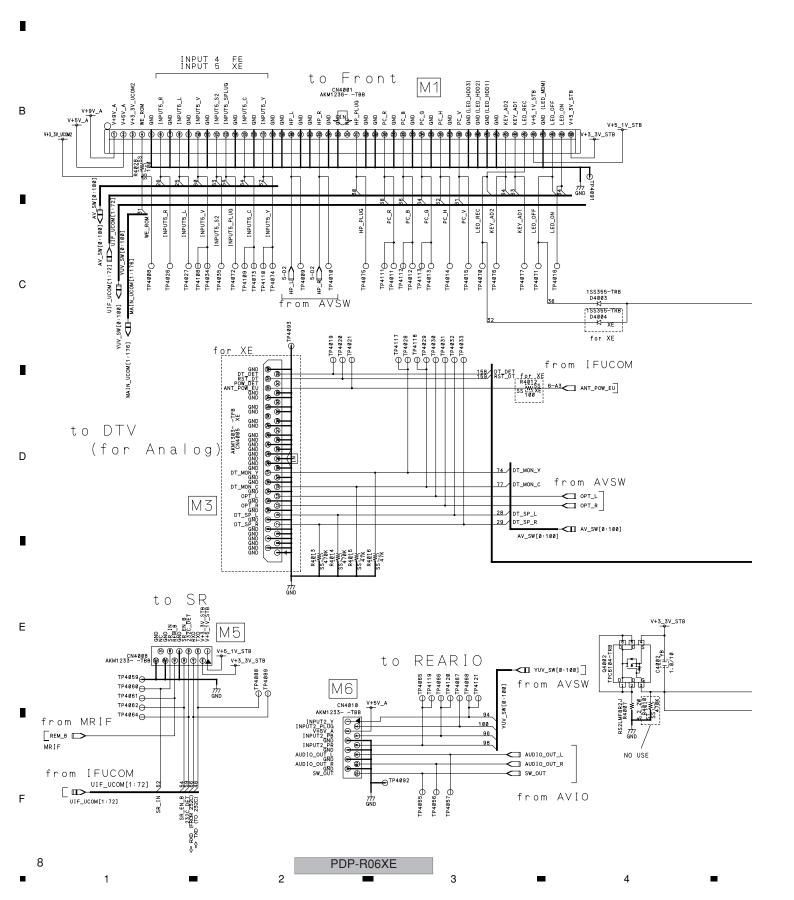


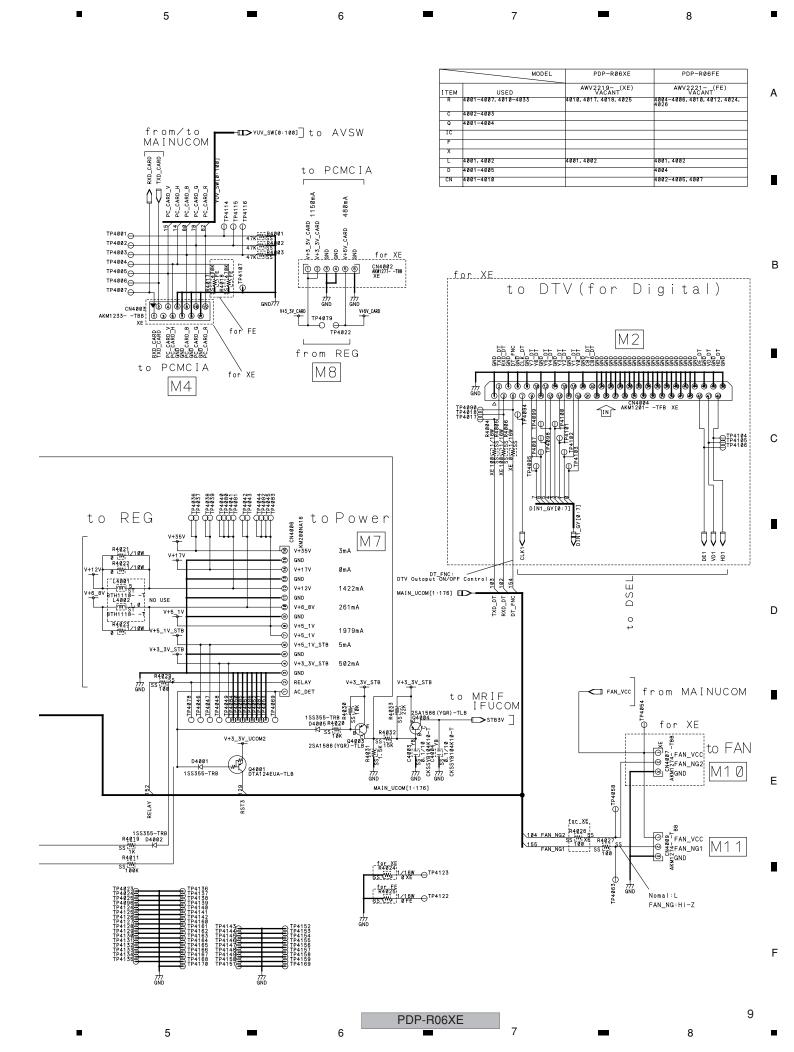
3.2 MR MAIN ASSY (1/15)

MR MAIN ASSY (1/15)

• BOARD IF BLOCK

NO_USE |----|: STANDBY



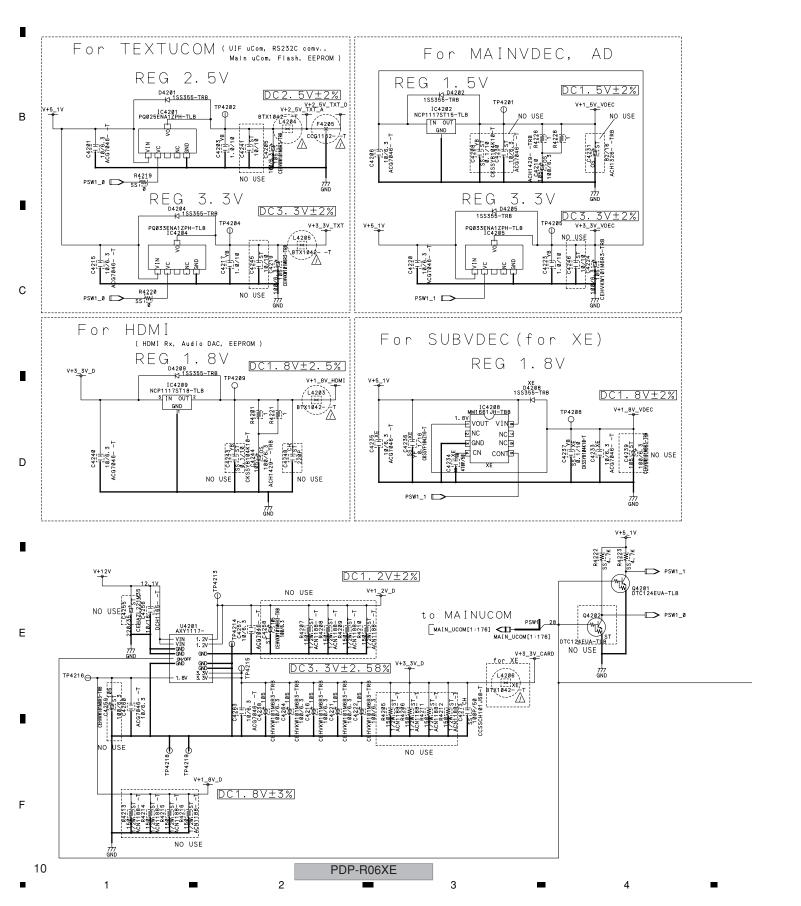


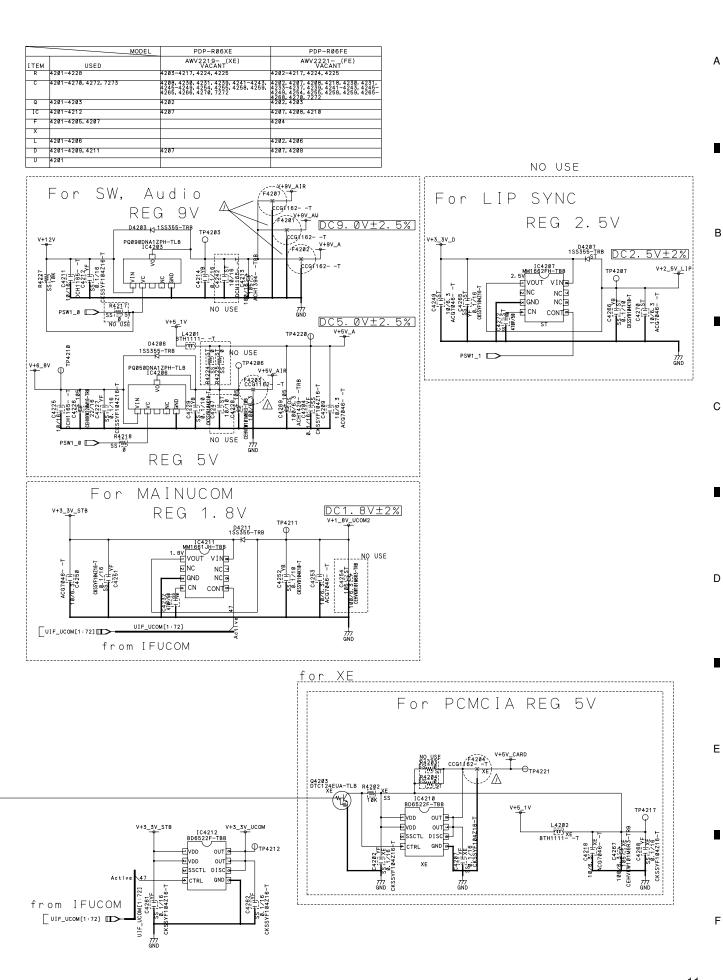
3.3 MR MAIN ASSY (2/15)

MR MAIN ASSY (2/15)

REG BLOCK

NO USE : STANDBY



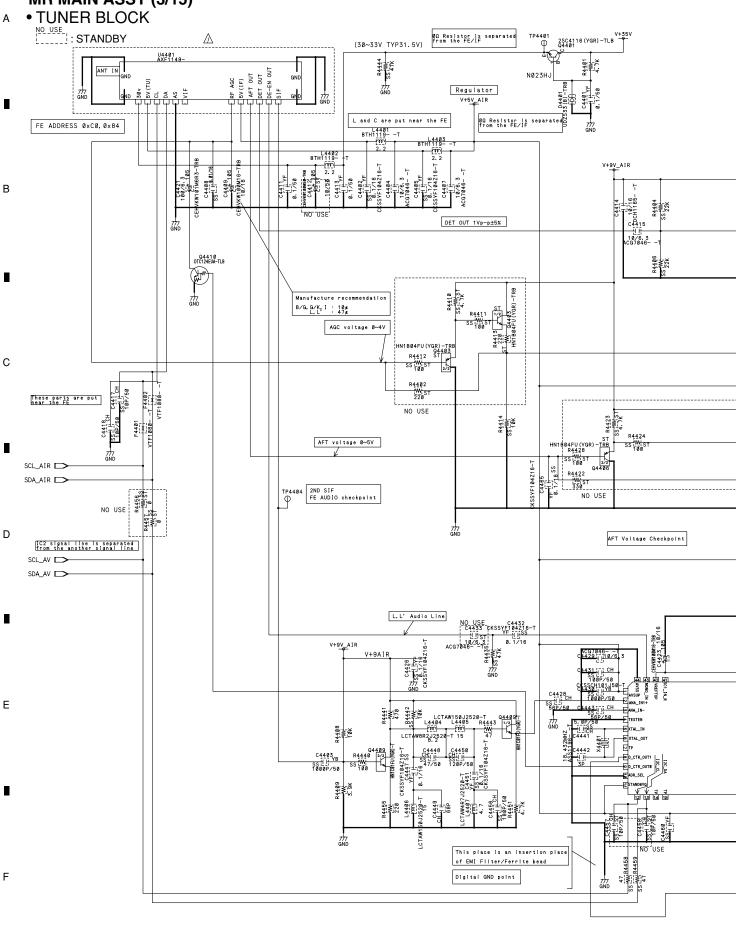


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3.4 MR MAIN ASSY (3/15)

MR MAIN ASSY (3/15)

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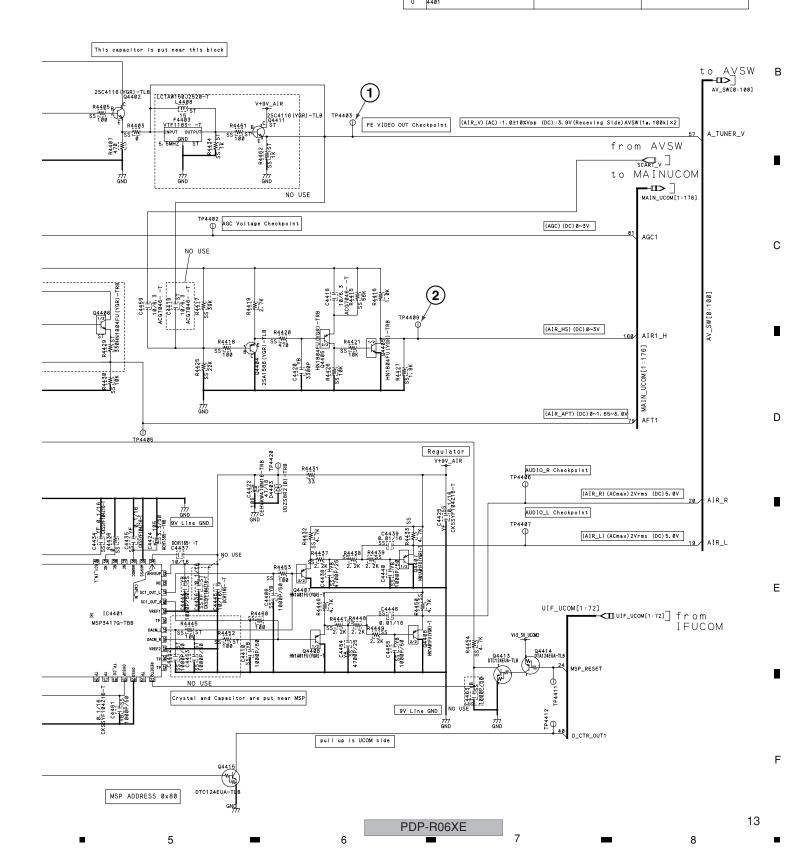
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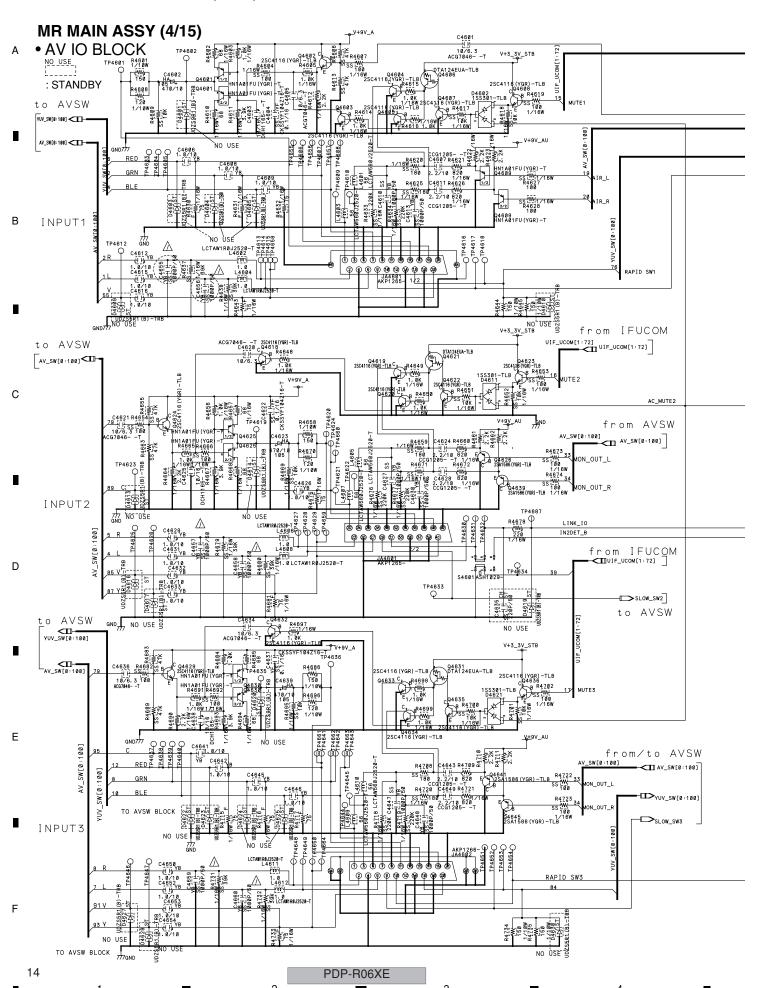
MODEL PDP-R06XE PDP-R06FE

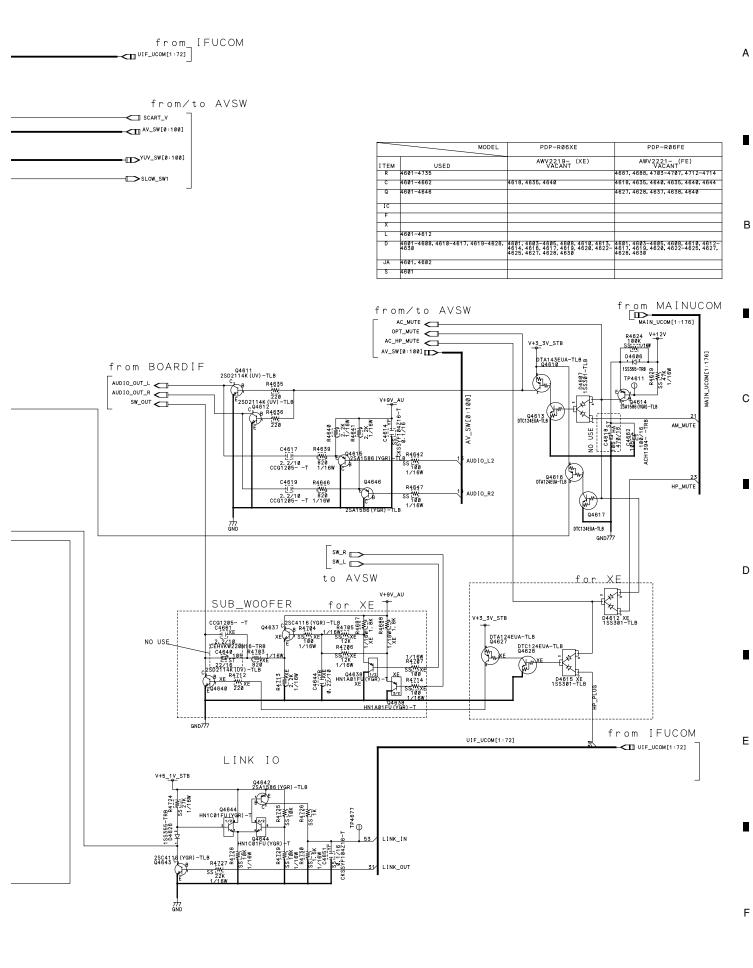
ITEM USED AWV2219_ (XE) AWV2221_ (FE)

R 4481-4462 4419-4452 4428-4419-4413, 4422-4424, 4428, 4482-4418-4413, 4422-4426, 4428, 4432-44418-4452, 4456, 4457, 4461, 4452, 4456, 4457, 4461, 4452, 4456, 4457, 4461, 4462, 4461, 4463, 4468, 4461, 4462, 4461, 4463, 4468, 4461, 4463, 4468, 4461, 4463, 4468, 4461, 4463, 446

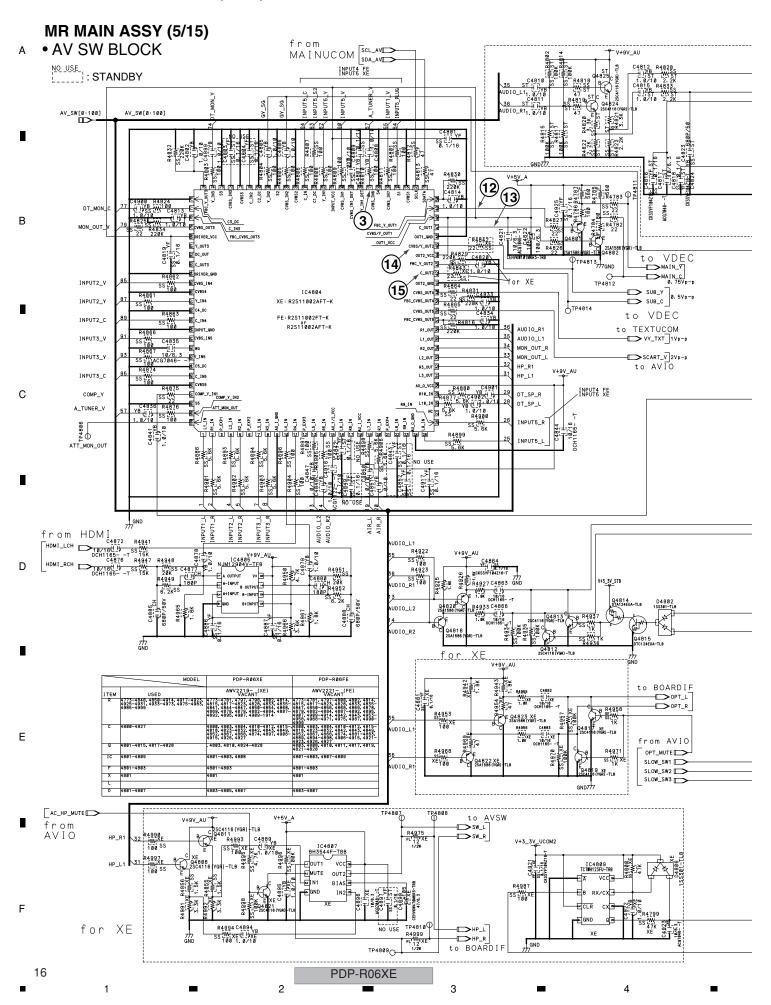
This block is separated from the FE/IF and put near the Regulator block.

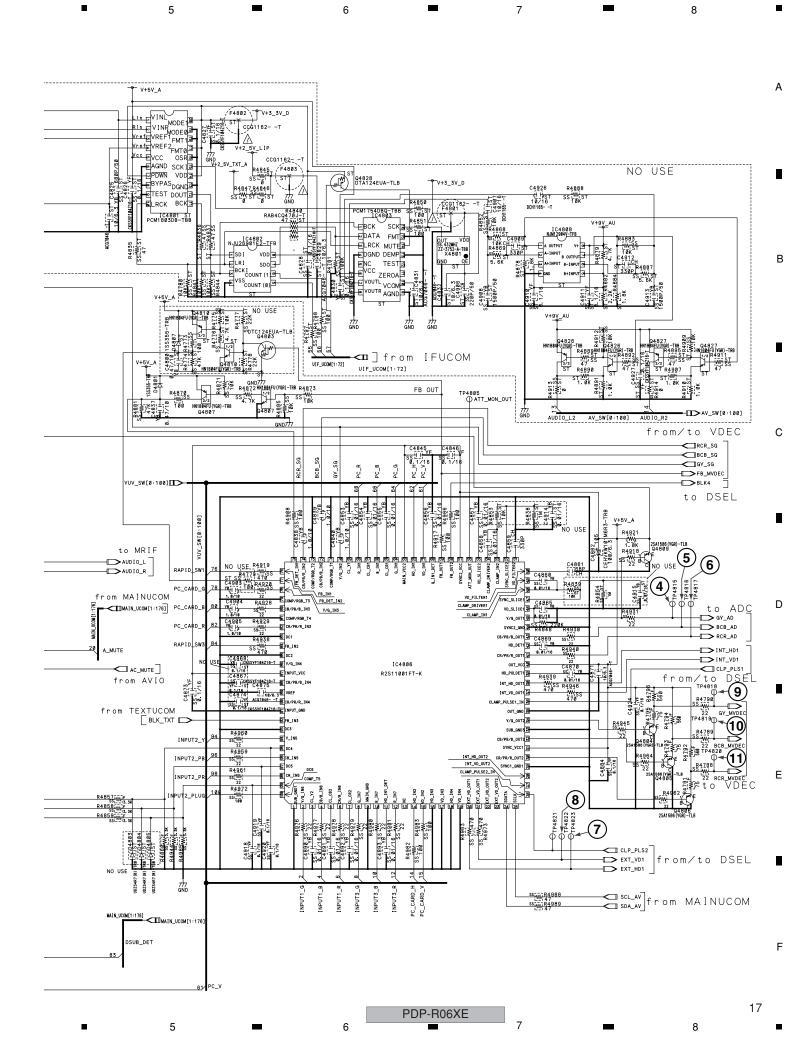






PDP-R06XE





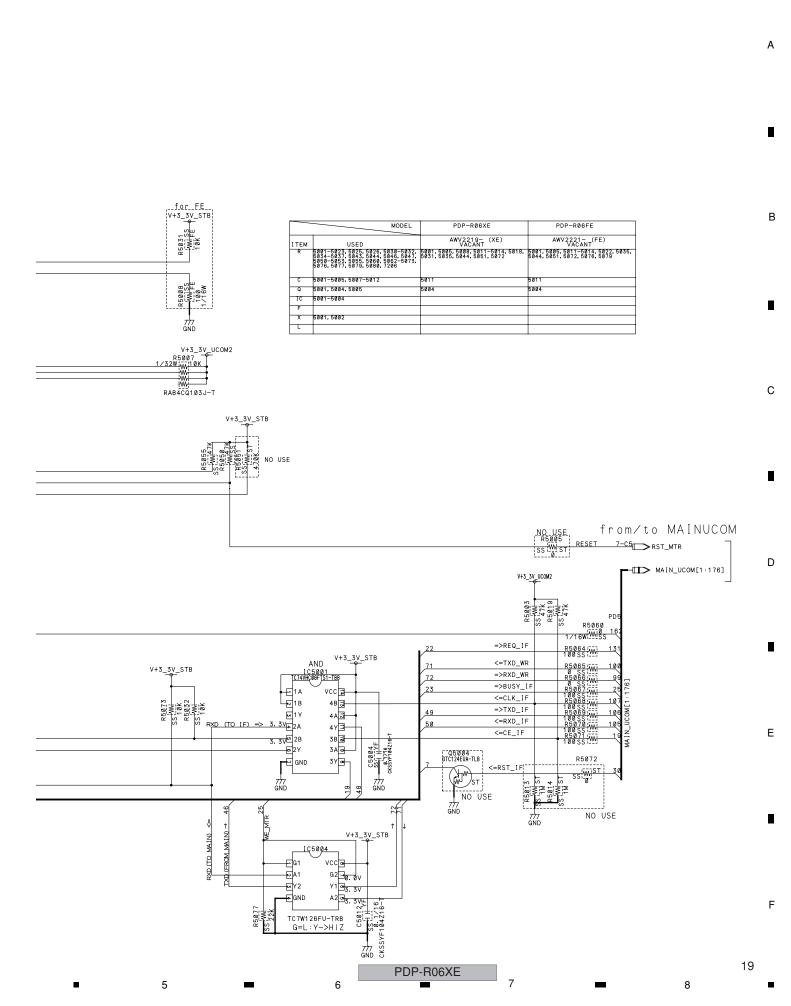
PDP-R06XE

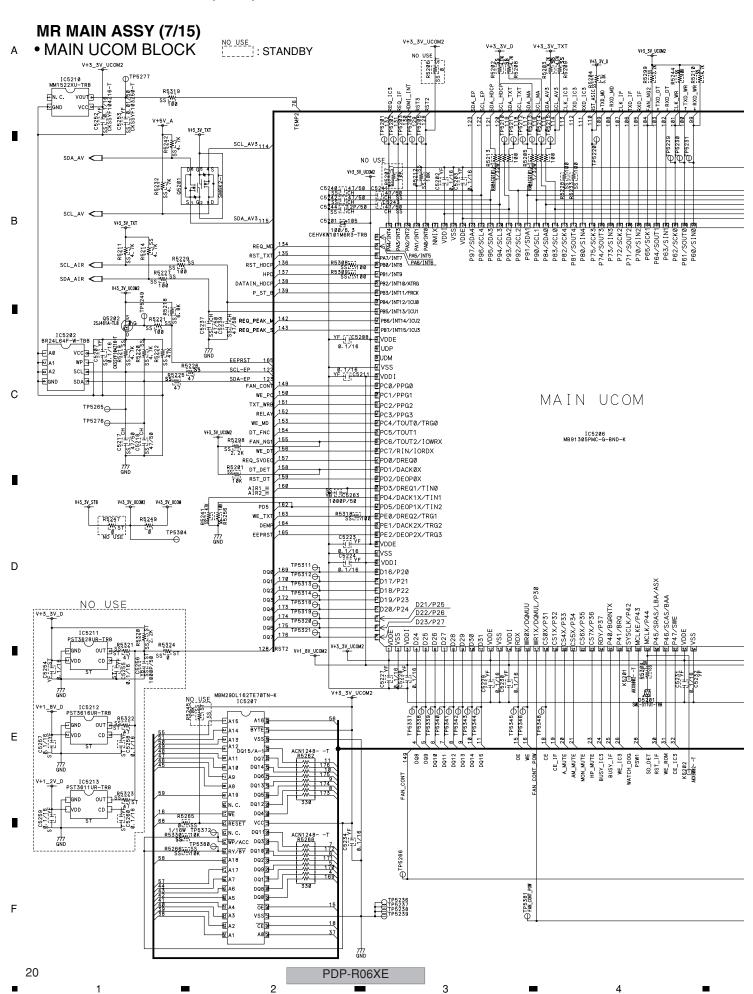
9.83MHz

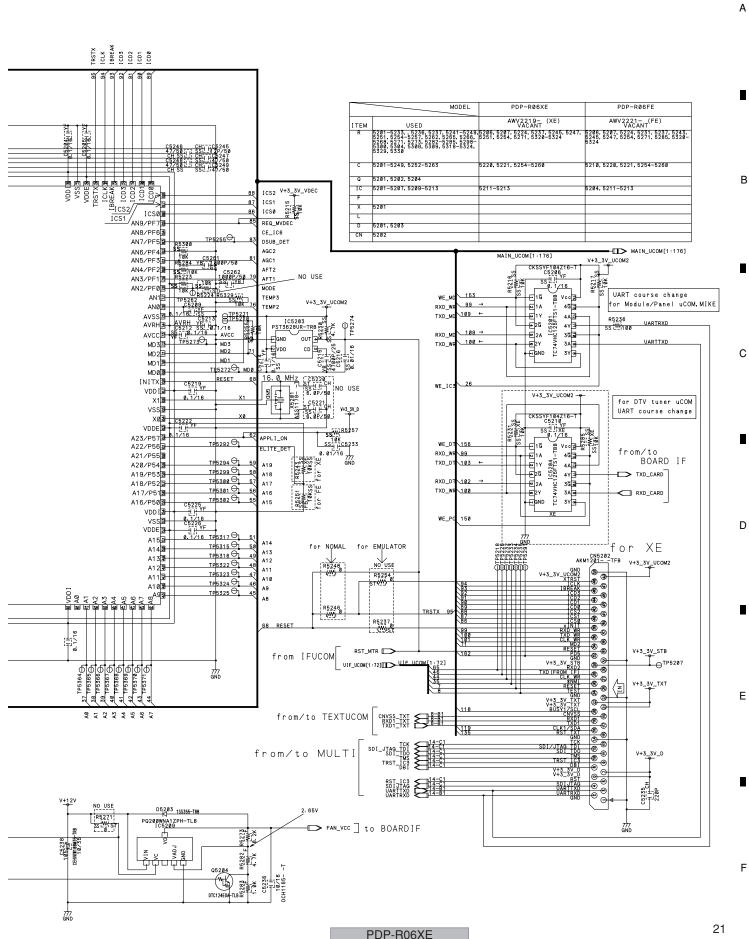
EXP-A3 COUNTØ EXP-A2 COUNT1 EXP-A1 LS_MUTE EXP-A0 HOT_P1

32.768KHz

66 RXD (FROM 232C) =>



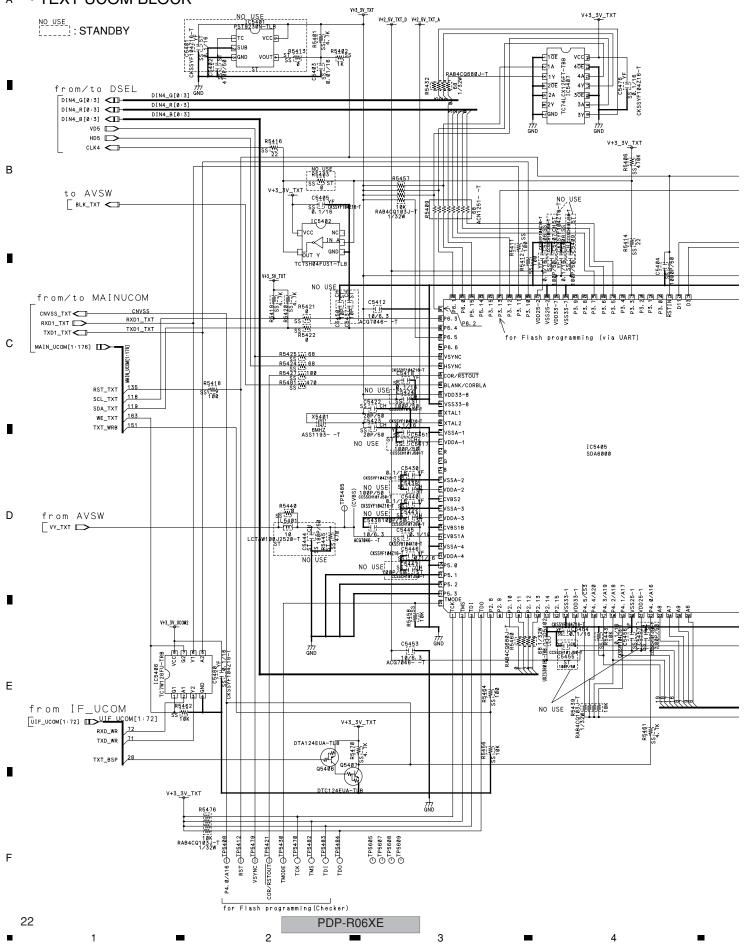


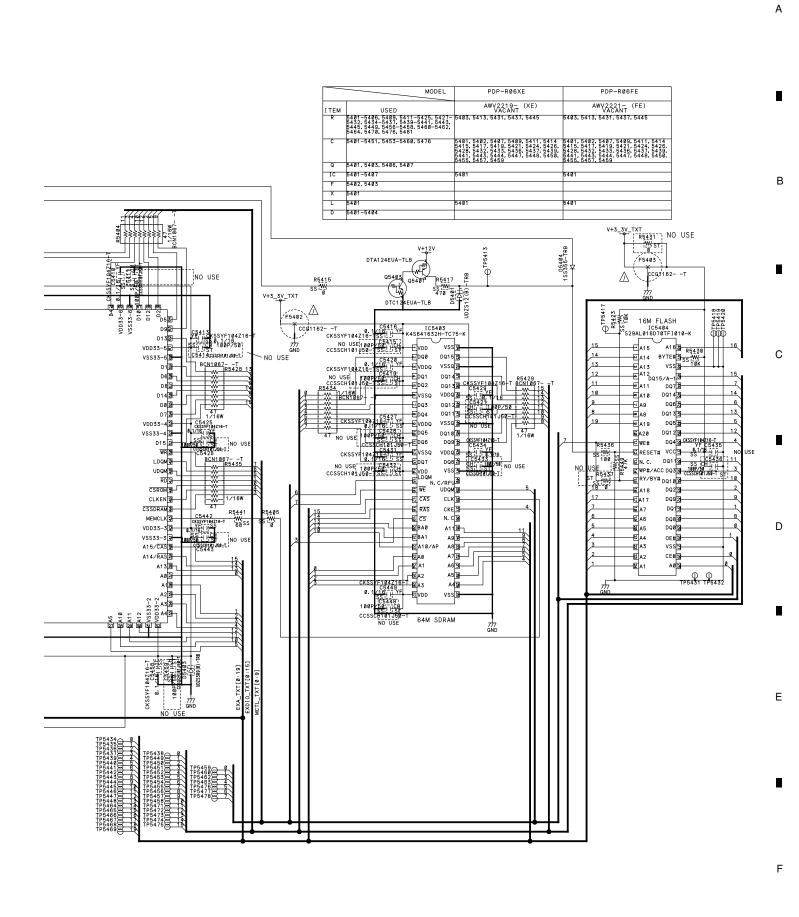


3.9 MR MAIN ASSY (8/15)

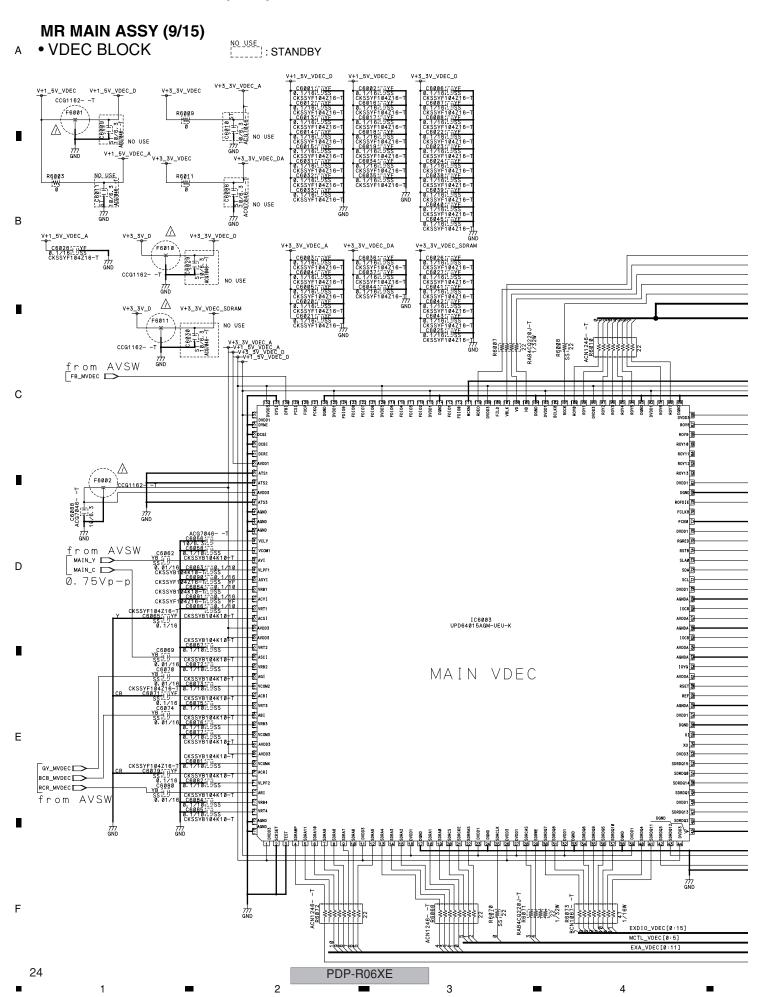
MR MAIN ASSY (8/15)

• TEXT UCOM BLOCK

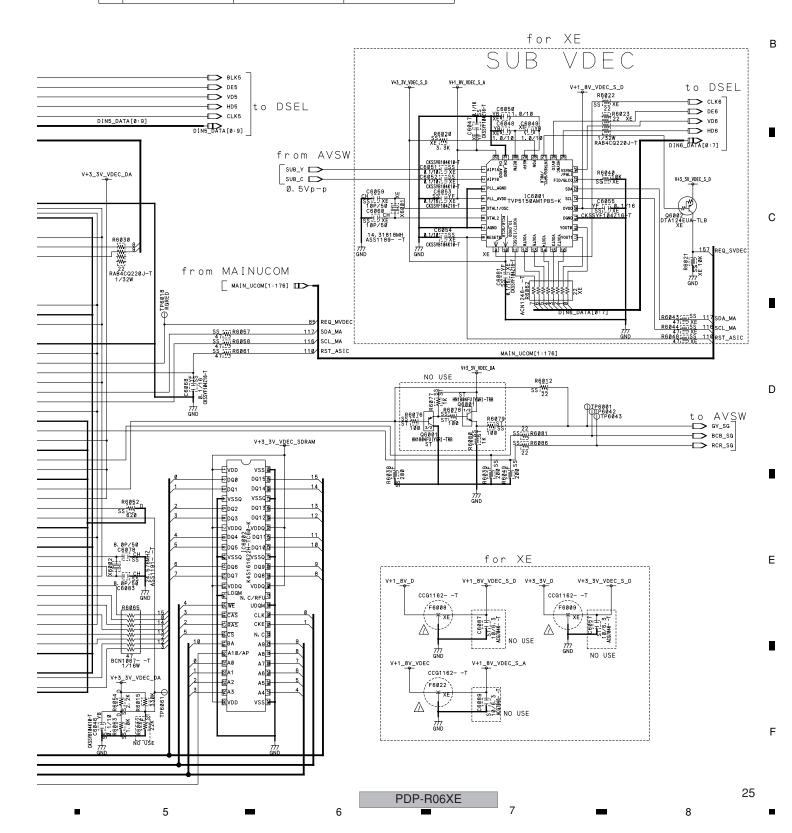


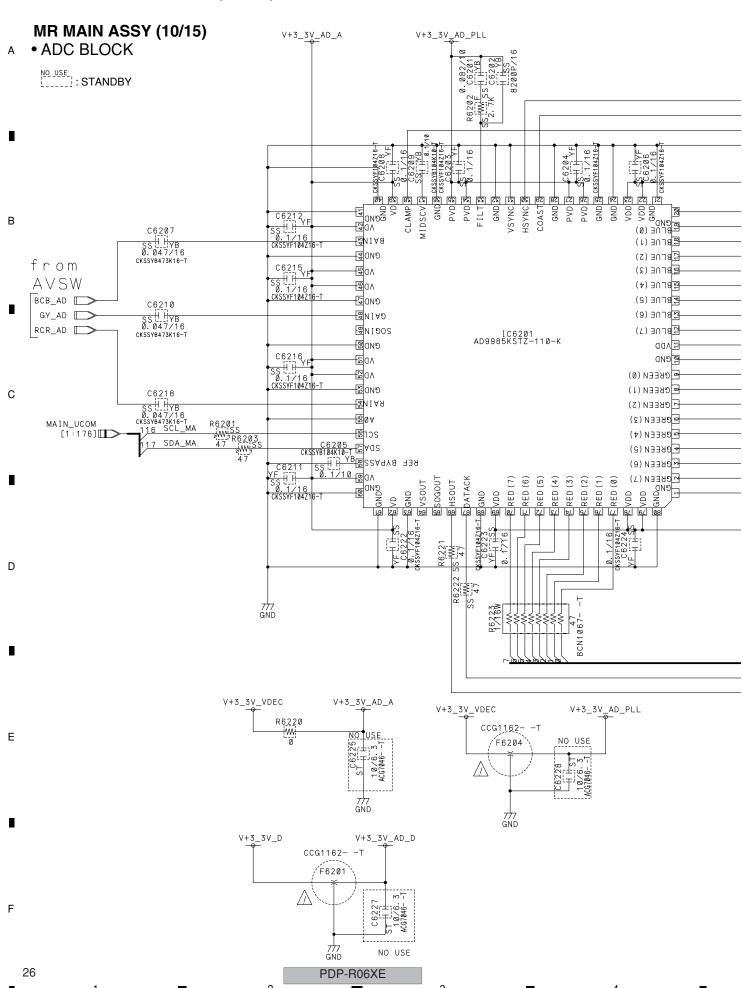


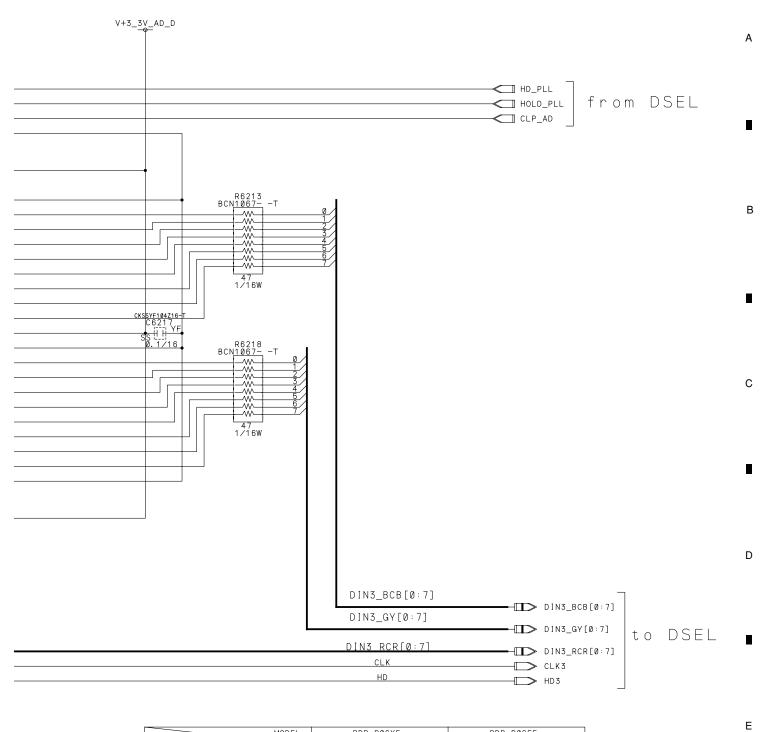
PDP-R06XE



| | MODEL | PDP-RØ6XE | PDP-RØ6FE |
|------|---|--|--|
| ITEM | USED | AWV2219- (XE) VACANT | AWV2221- (FE) VACANT |
| | 6002, 6003, 6007-6012, 6015, 6020- 6023, 6030, 6038-6040, 6043, 6044, 6048, 6049, 6052, 6054, 6057, 6058, 6061-6063, 6065, 6068, 6070-6073, 6076-6081, 6086 | 6002,6076-6080 | 6002, 6020-6023, 6040, 6043, 6044, 6048, 6062, 6076-6079, 6080 |
| С | 6001-6091 | 6009-6011, 6029, 6030, 6057, 6086, 6087, 6089 | 6009-6011, 6029, 6030, 6047-6055, 6057, 6059-6061, 6086, 6087, 6089 |
| Q | 6001,6002 | 6001 | 6001.6002 |
| IC | 6001-6003 | | 6001 |
| F | 6001, 6002, 6008-6011, 6022 | | 6008, 6009, 6022 |
| Х | 6001, 6002 | | 6001 |
| L | | | |







| | MODEL | PDP-R06XE | PDP-R06FE |
|------|--|-------------------------|-------------------------|
| ITEM | USED | AWV2219- (XE) VACANT | AWV2221- (FE) VACANT |
| | 6201-6203, 6213, 6218, 6220-6223 | | |
| С | 6201-6212, 6215-6218, 6222-6225, 6227, 6228 | 6225, 6227, 6228 | 6225, 6227, 6228 |
| Q | | | |
| IC | 6201 | | |
| F | 6201, 6204 | | |
| Х | | | |
| L | | | |

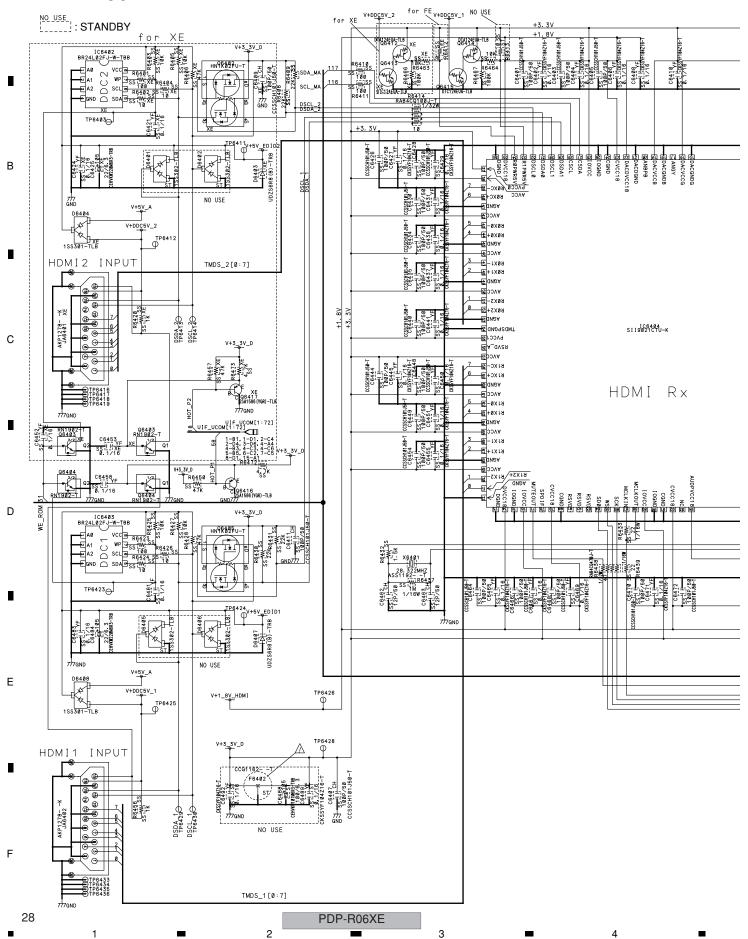
PDP-R06XE

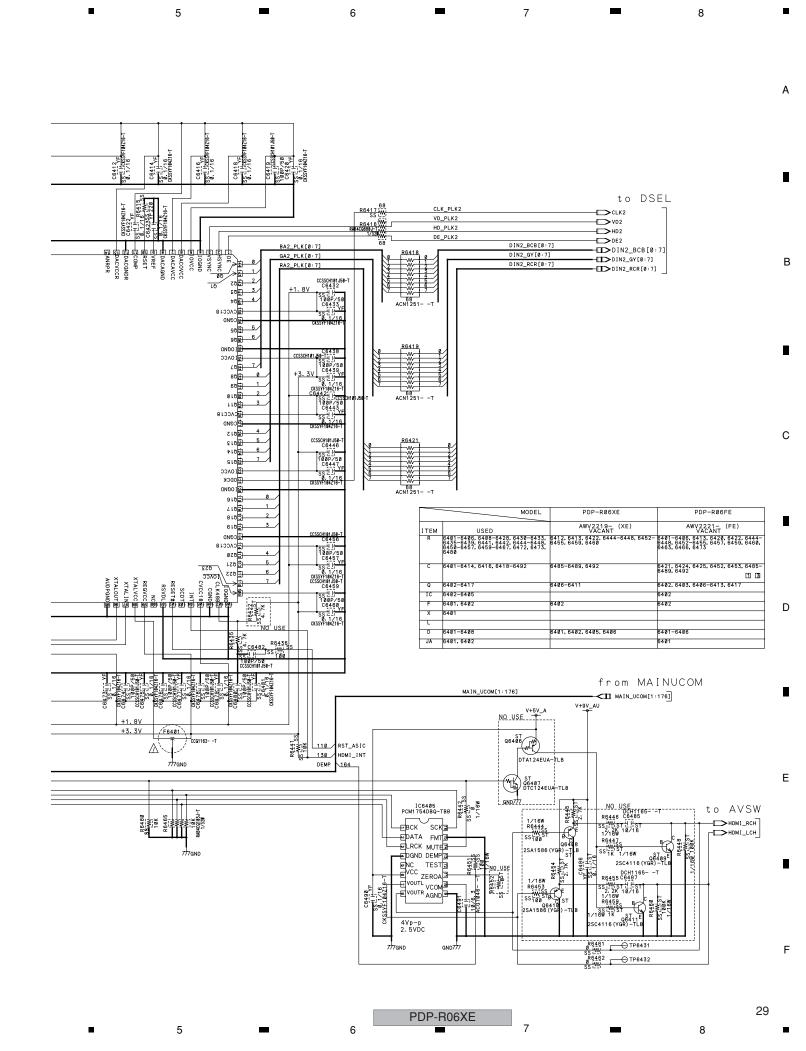
. .

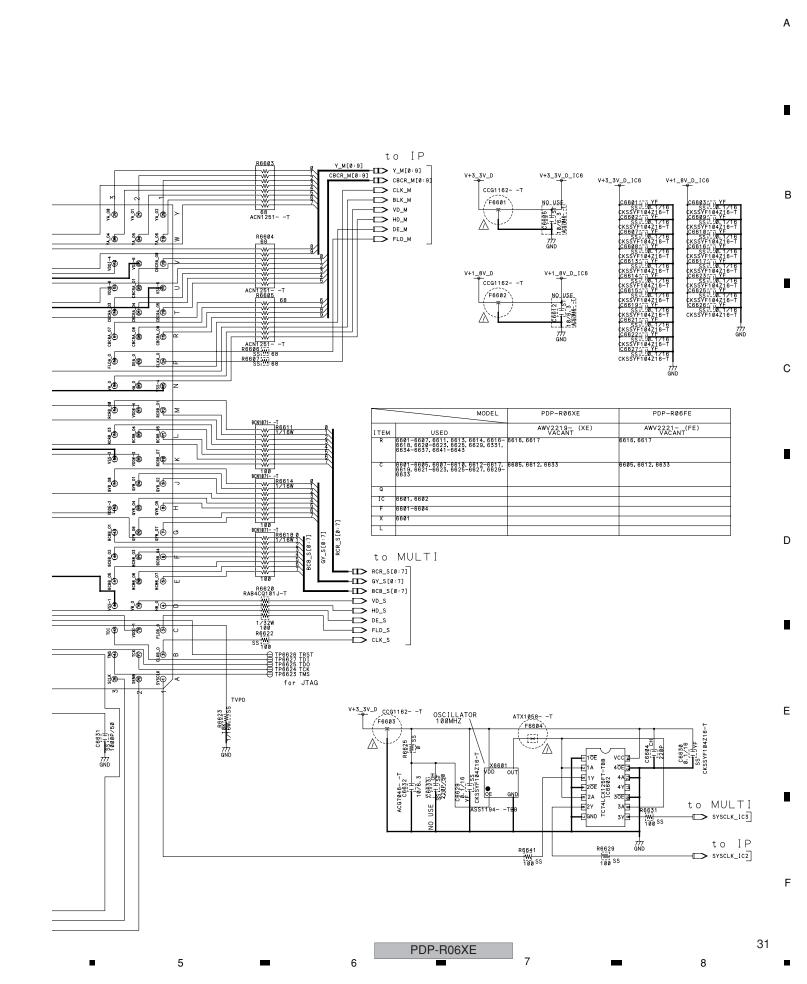
3.12 MR MAIN ASSY (11/15)

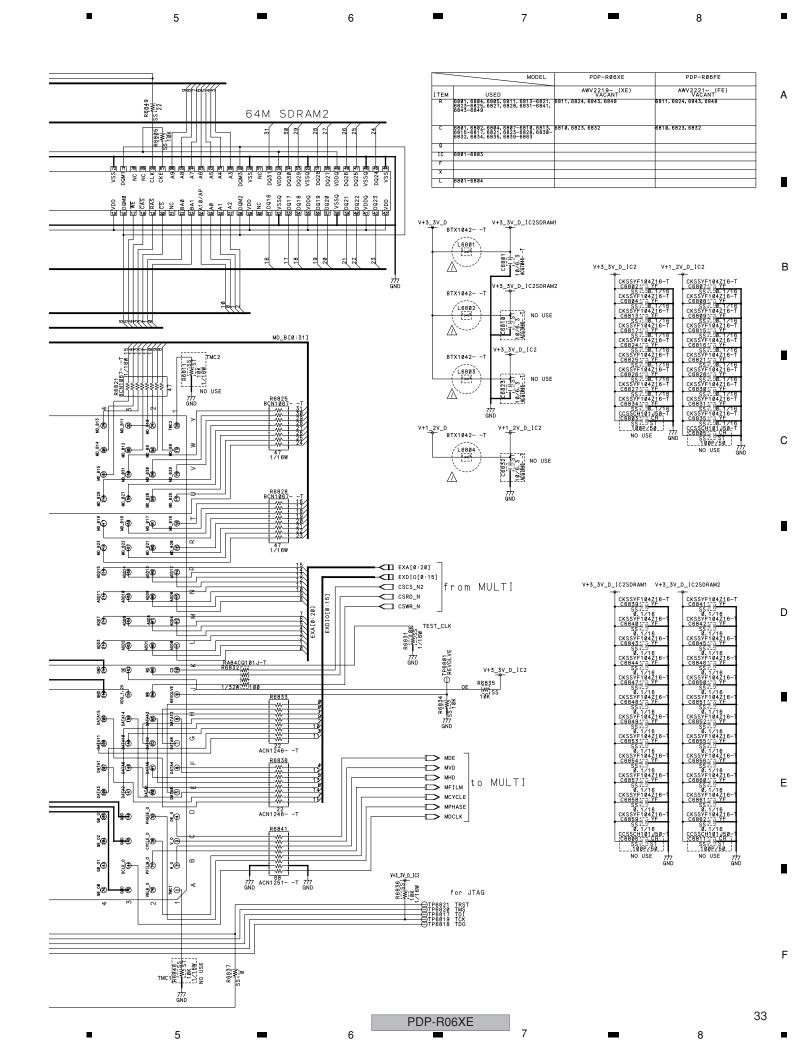
MR MAIN ASSY (11/15)

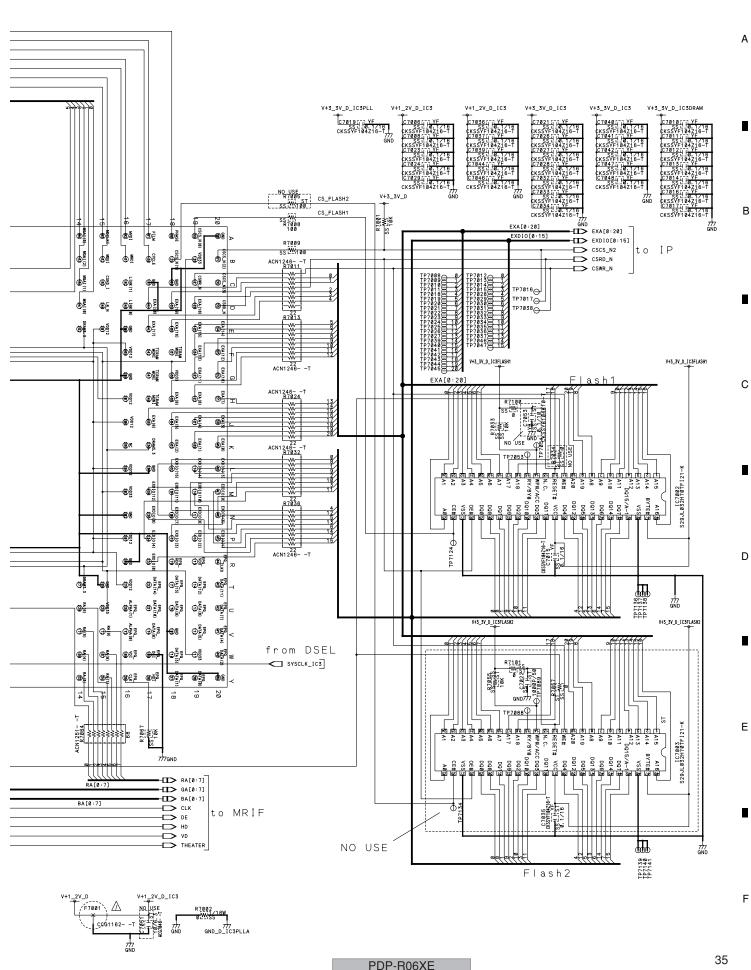
HDMI BLOCK

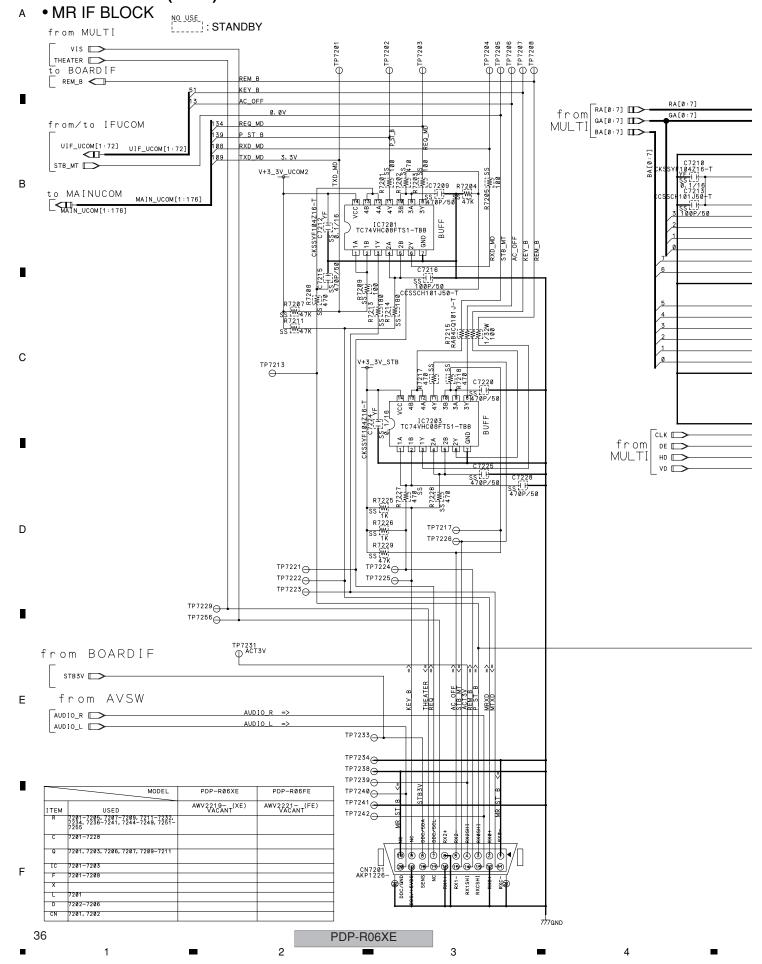


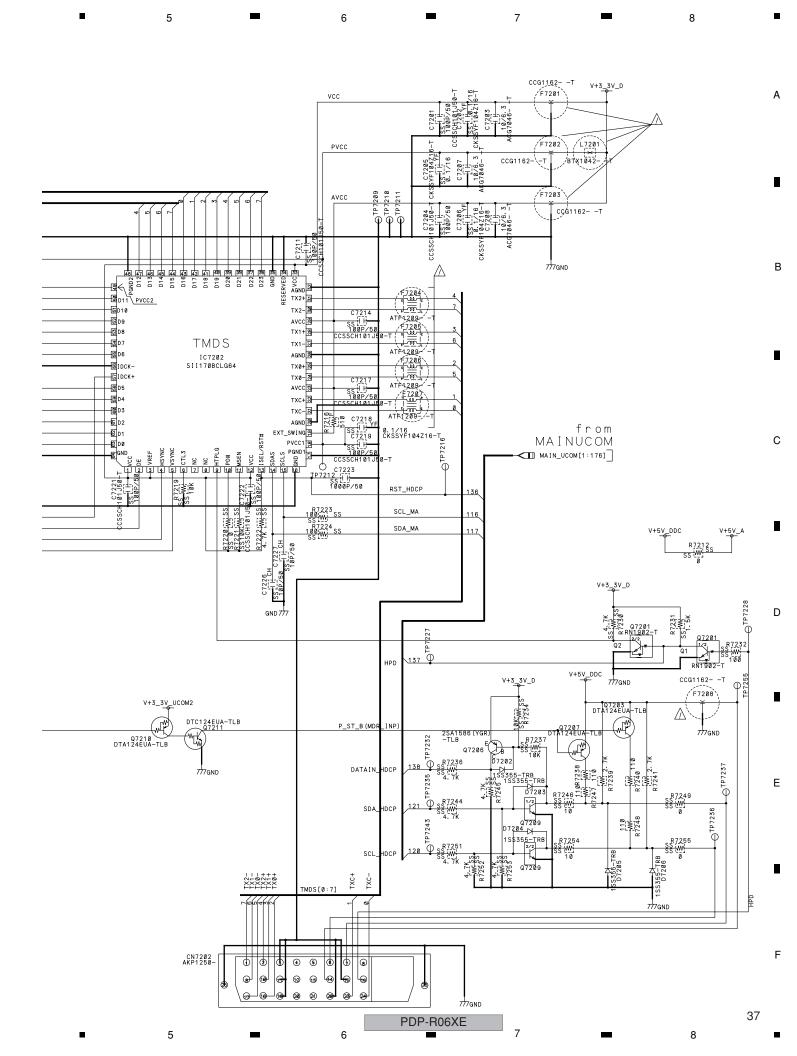






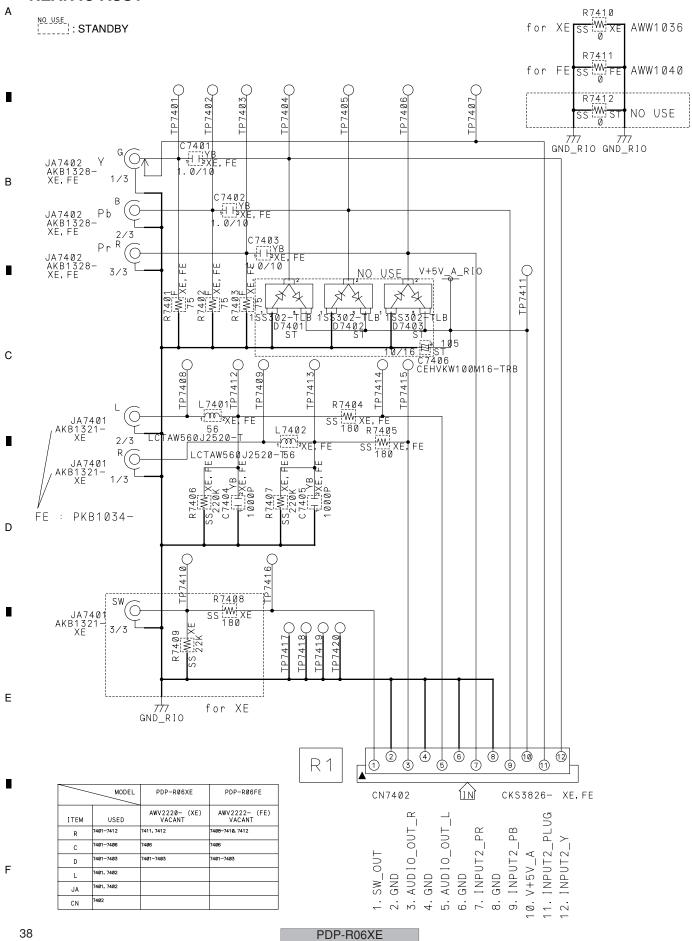




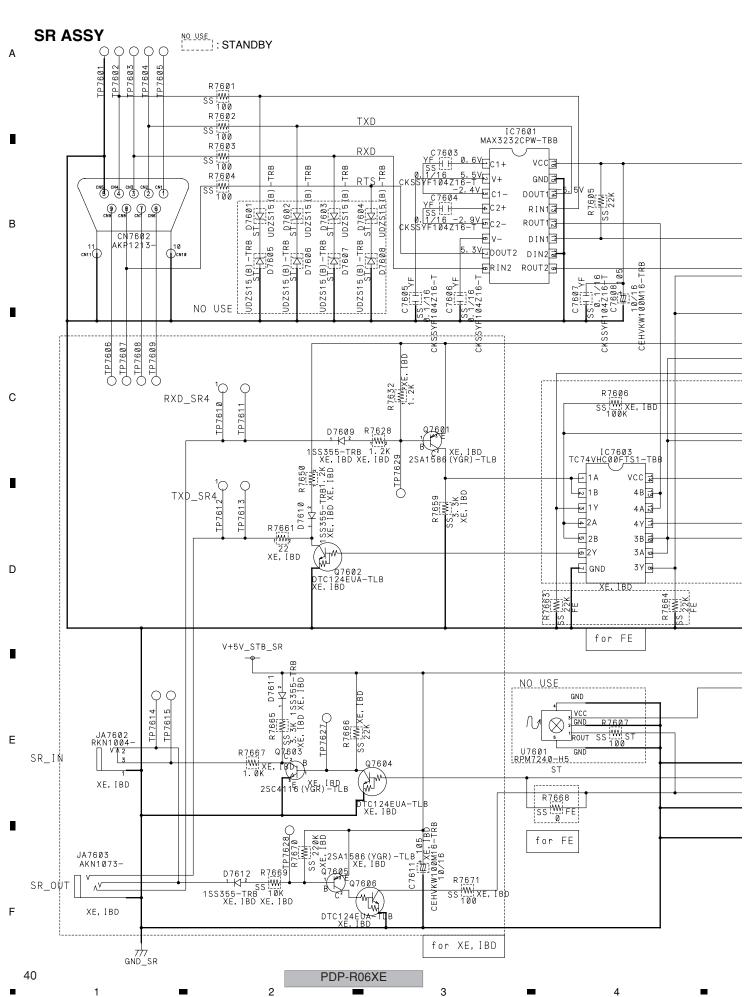


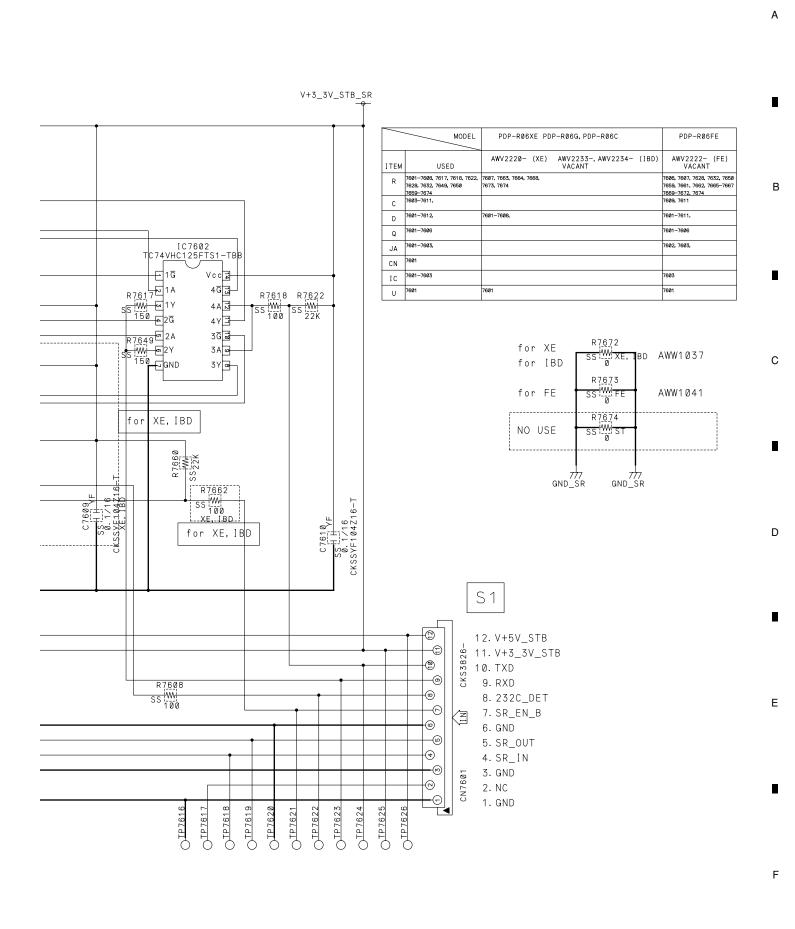
3.17 REAR IO ASSY

REAR IO ASSY

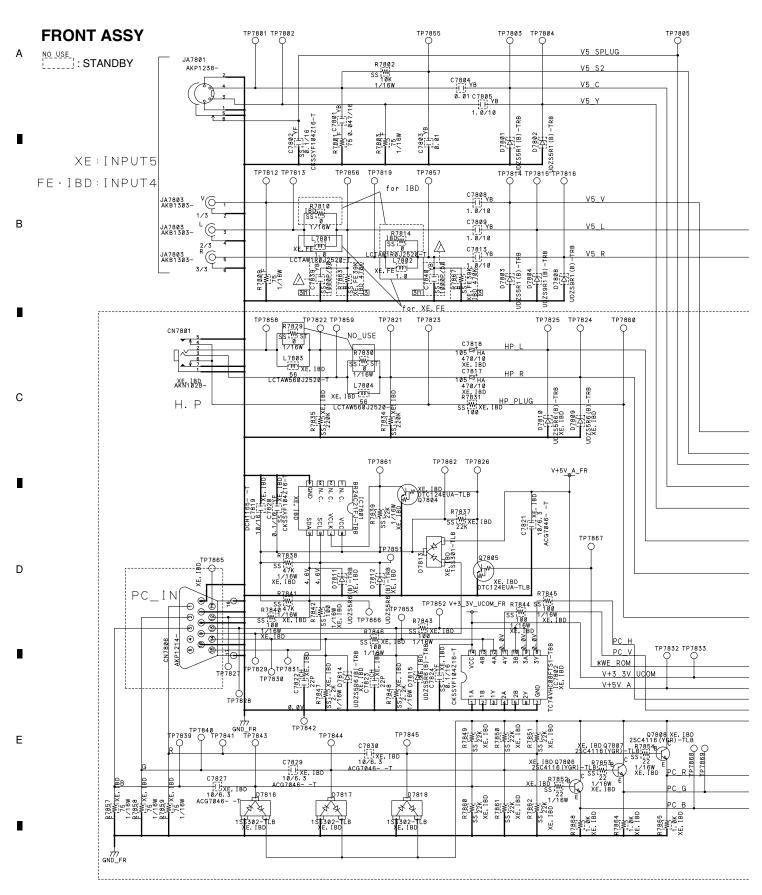


5 В С D Ε 39 PDP-R06XE 5 8

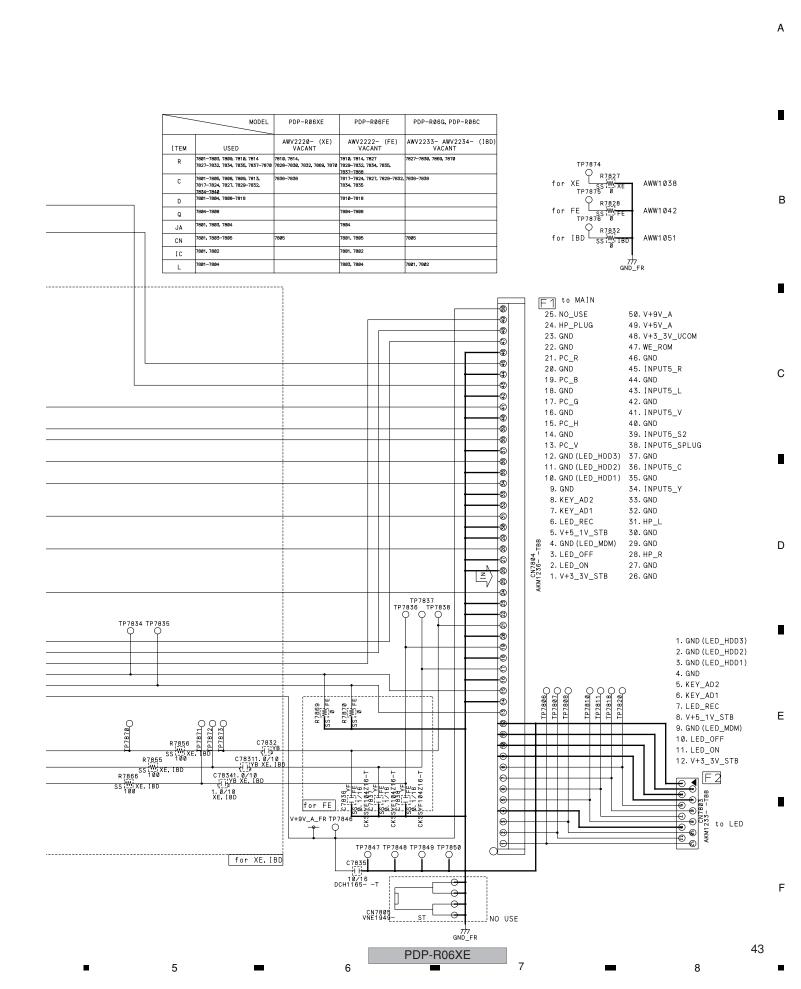




PDP-R06XE

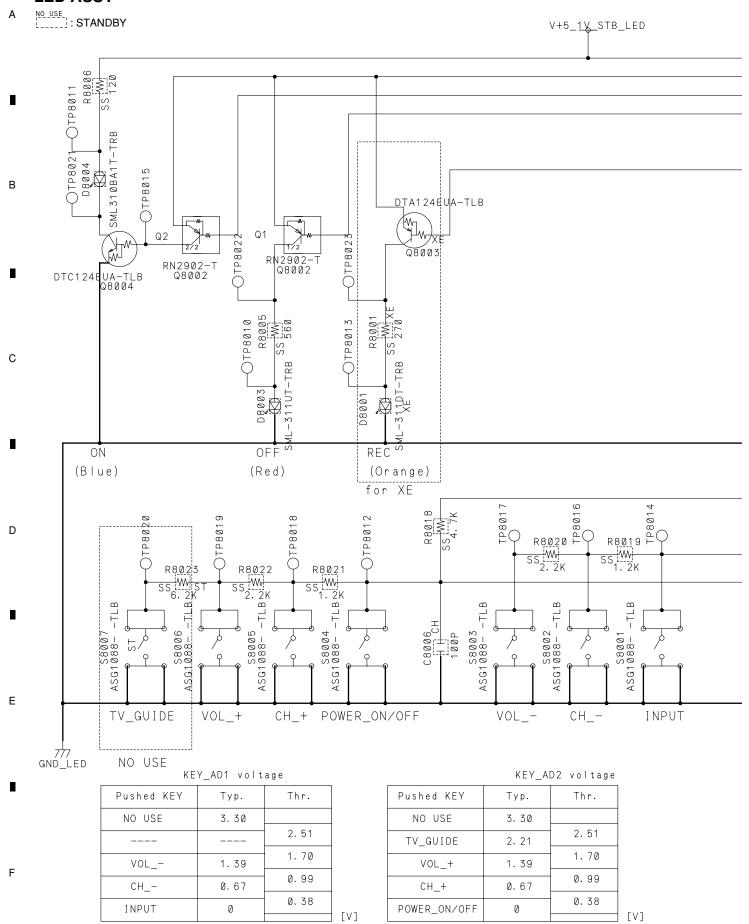


PDP-R06XE

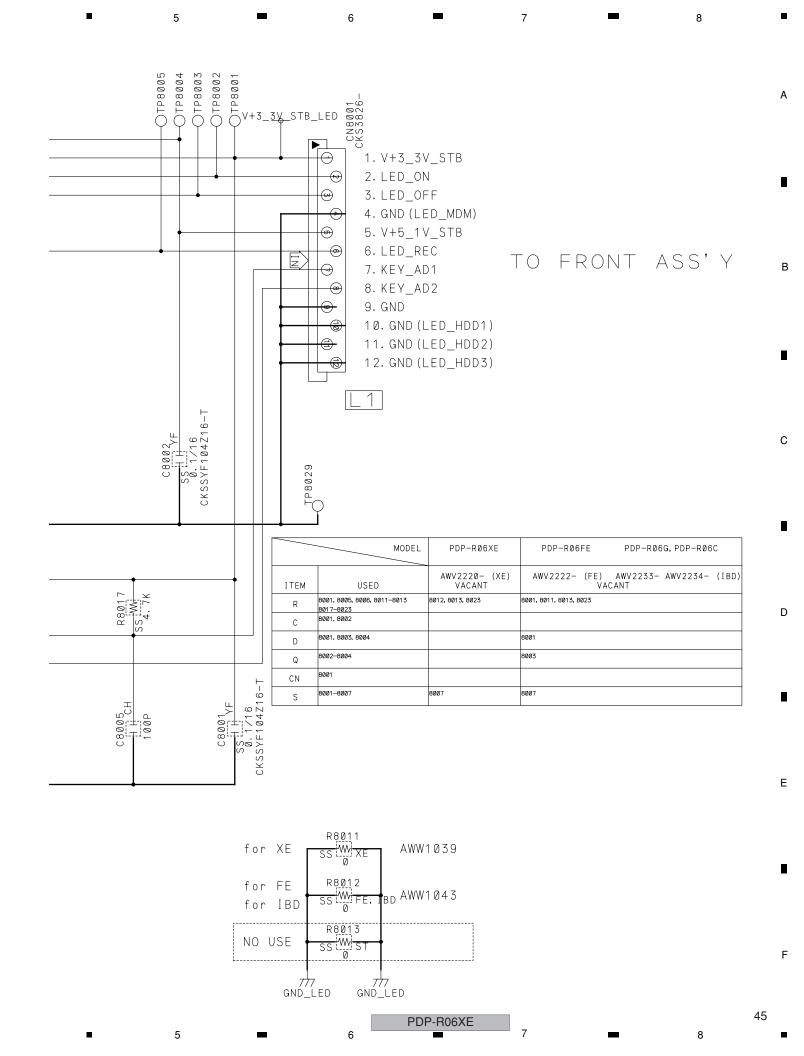


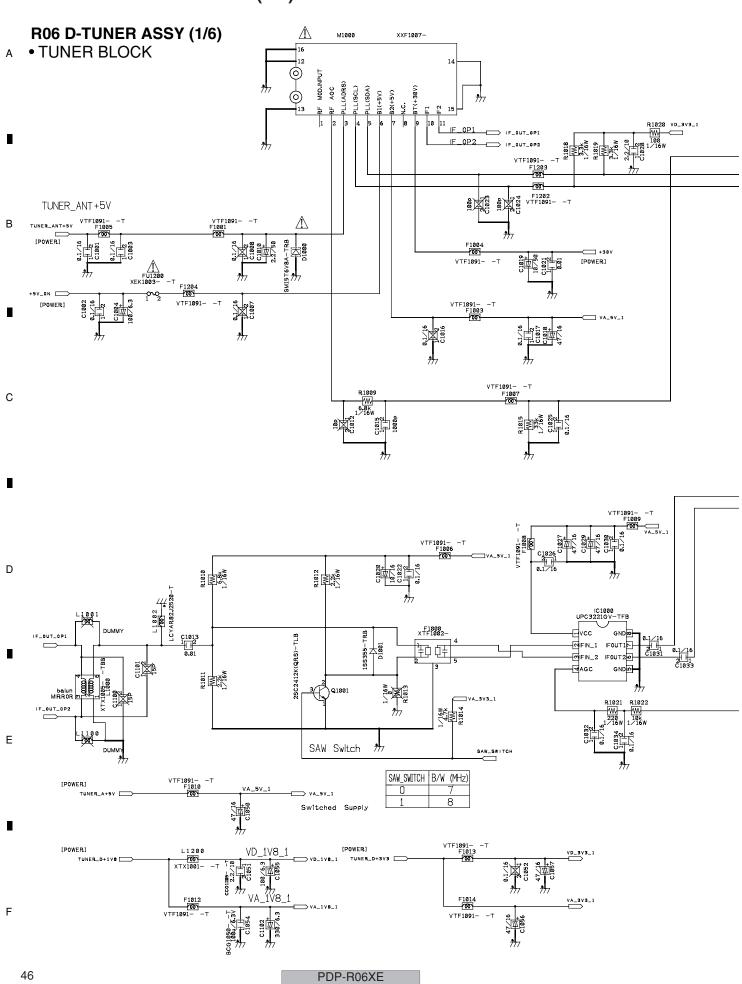
3.20 LED ASSY

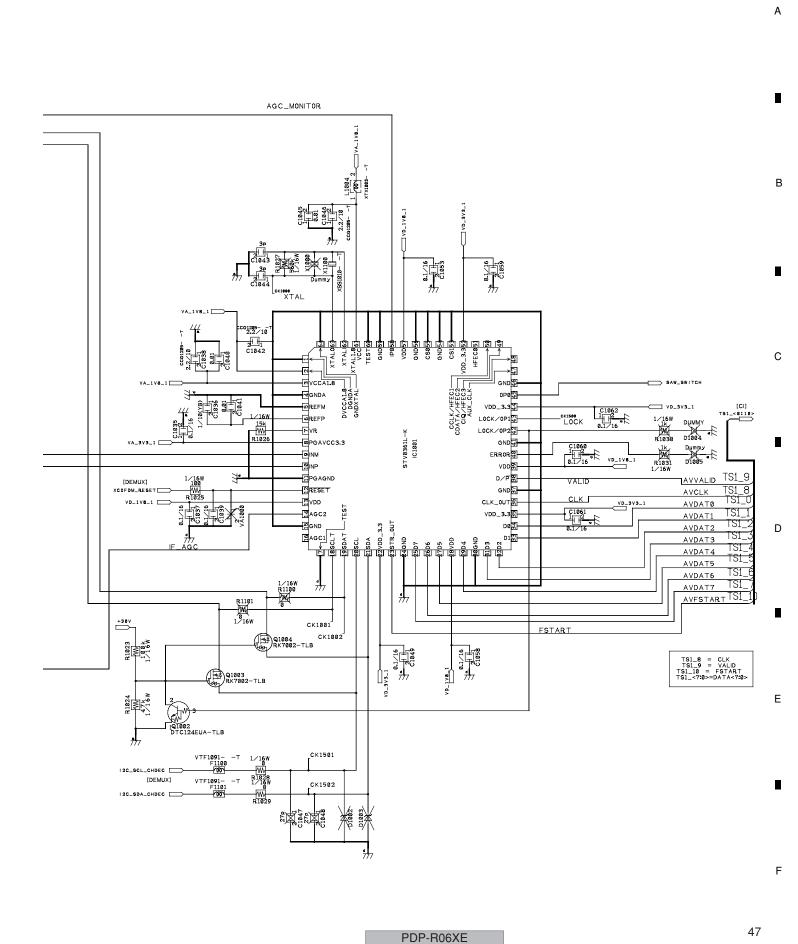
LED ASSY

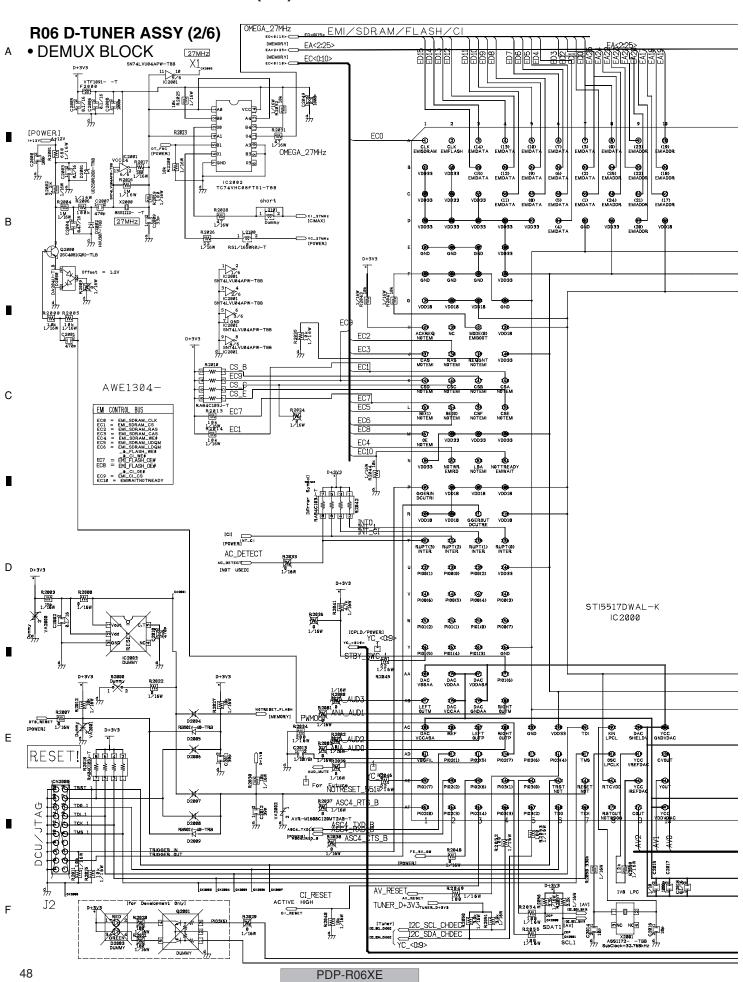


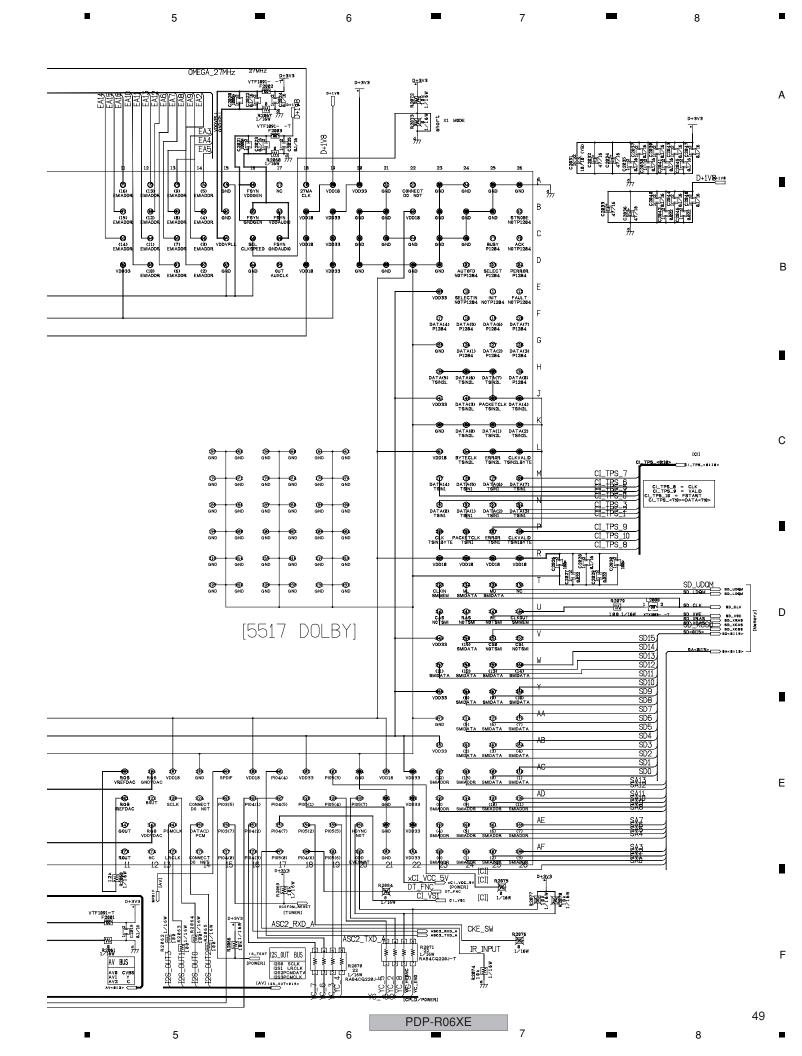
PDP-R06XE

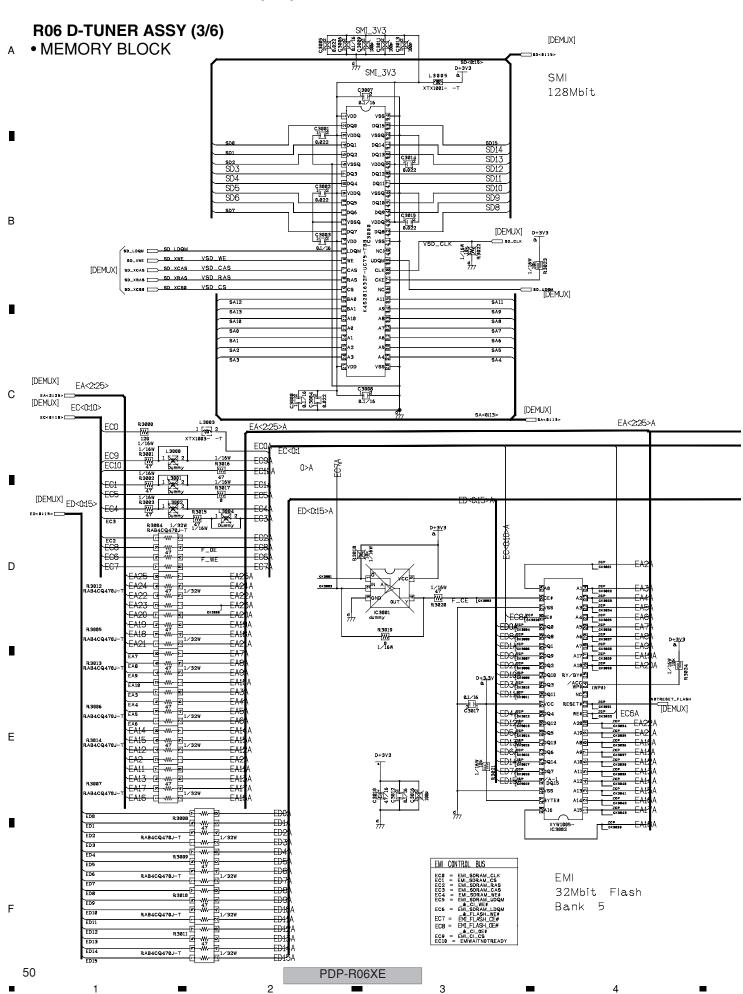


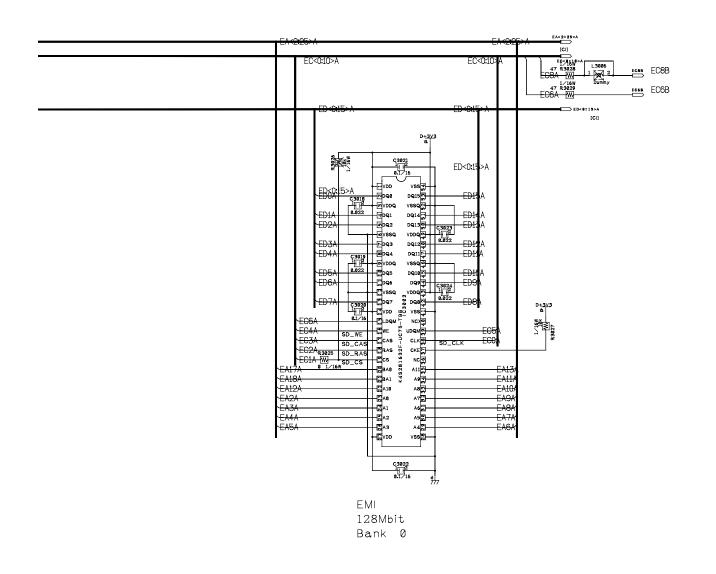










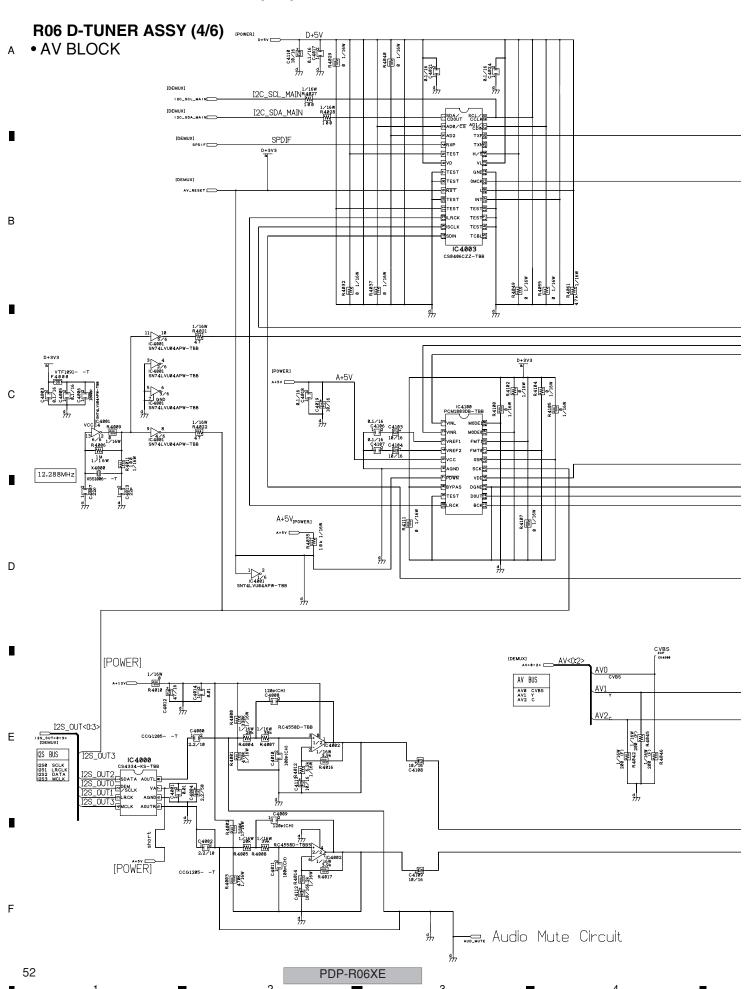


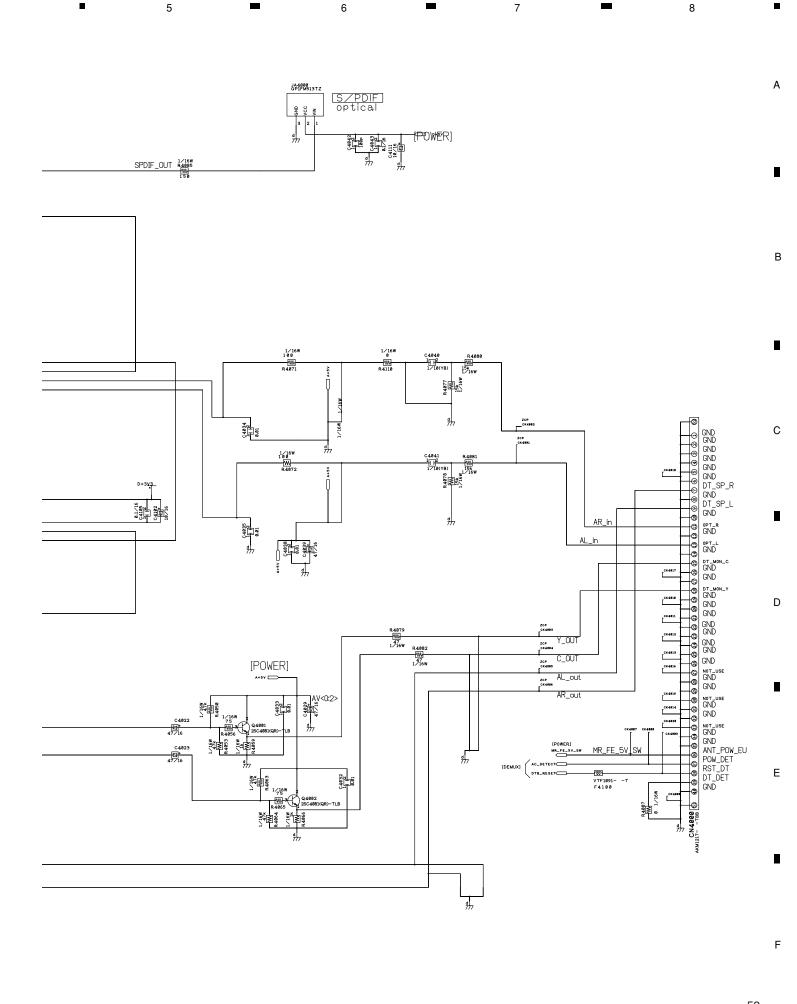
PDP-R06XE

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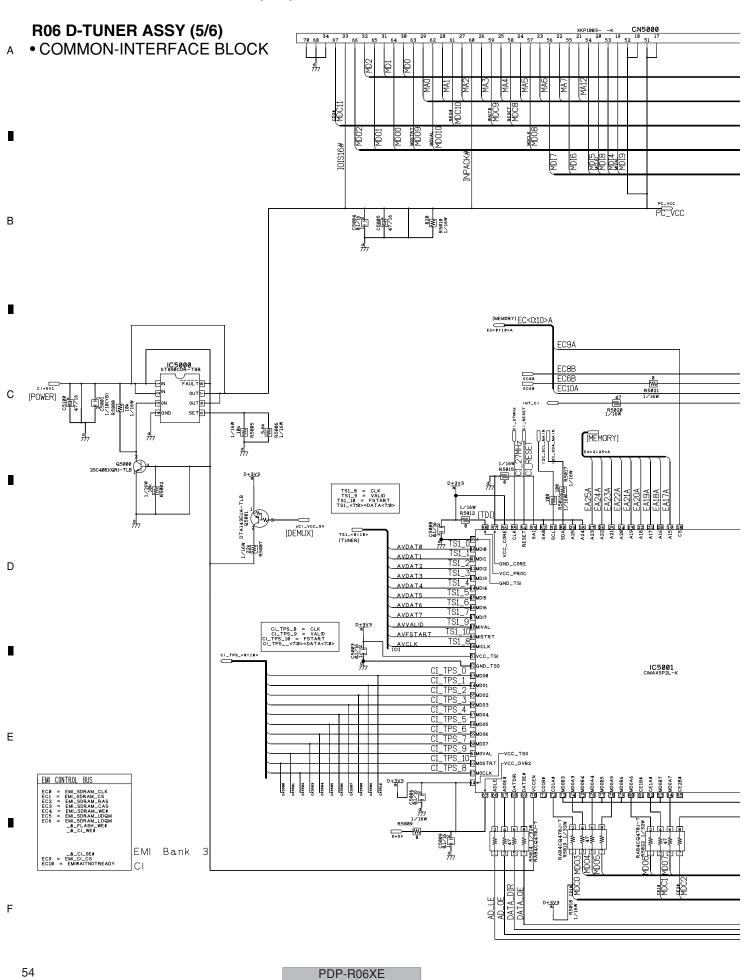
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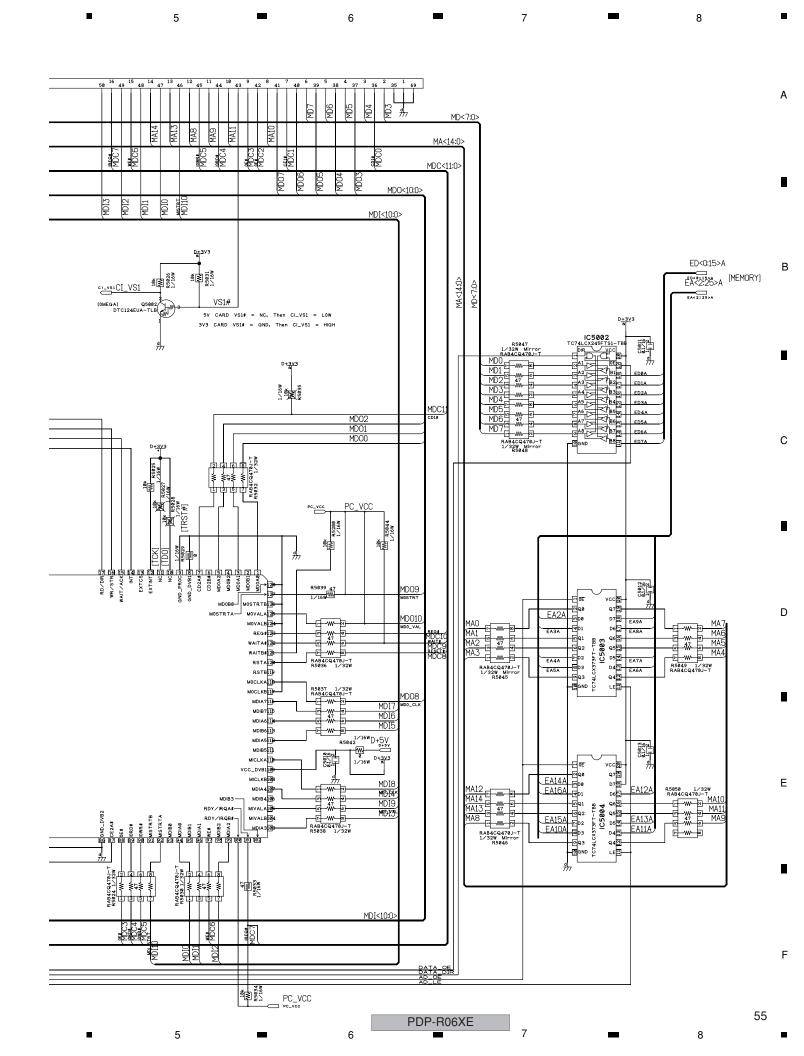
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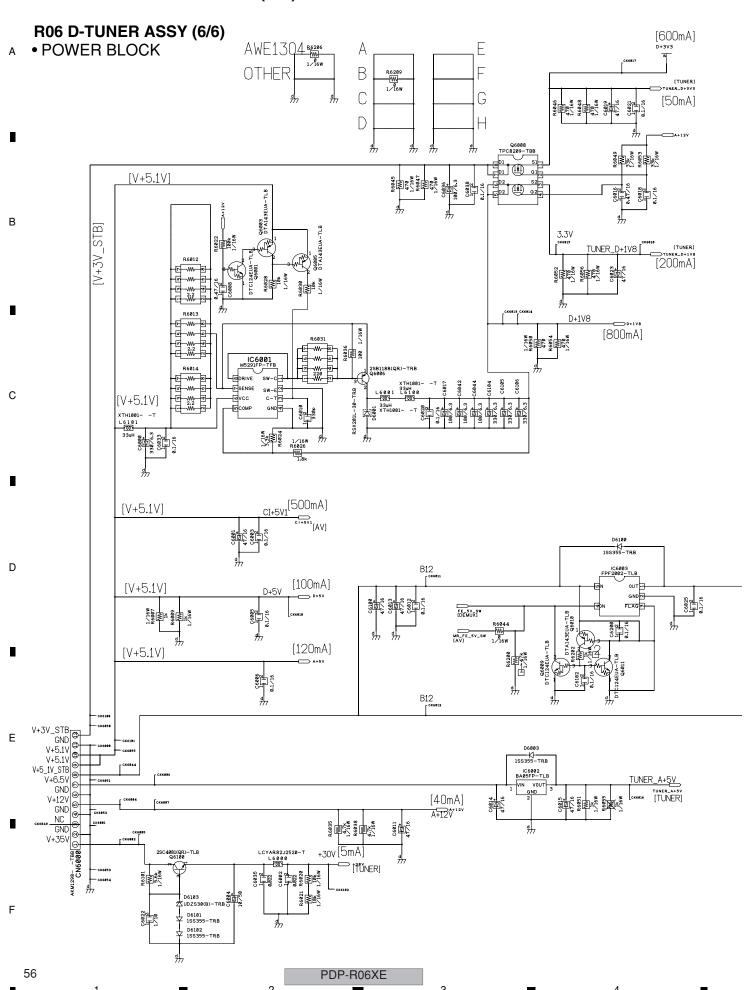


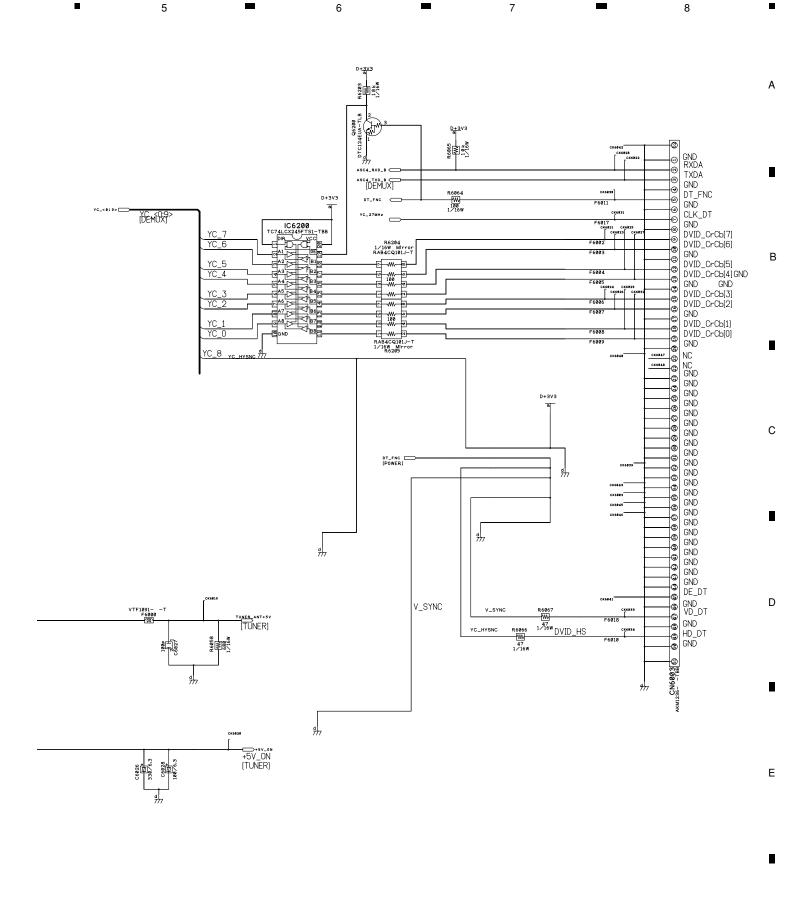
PDP-R06XE 7





3.26 R06 D-TUNER ASSY (6/6)





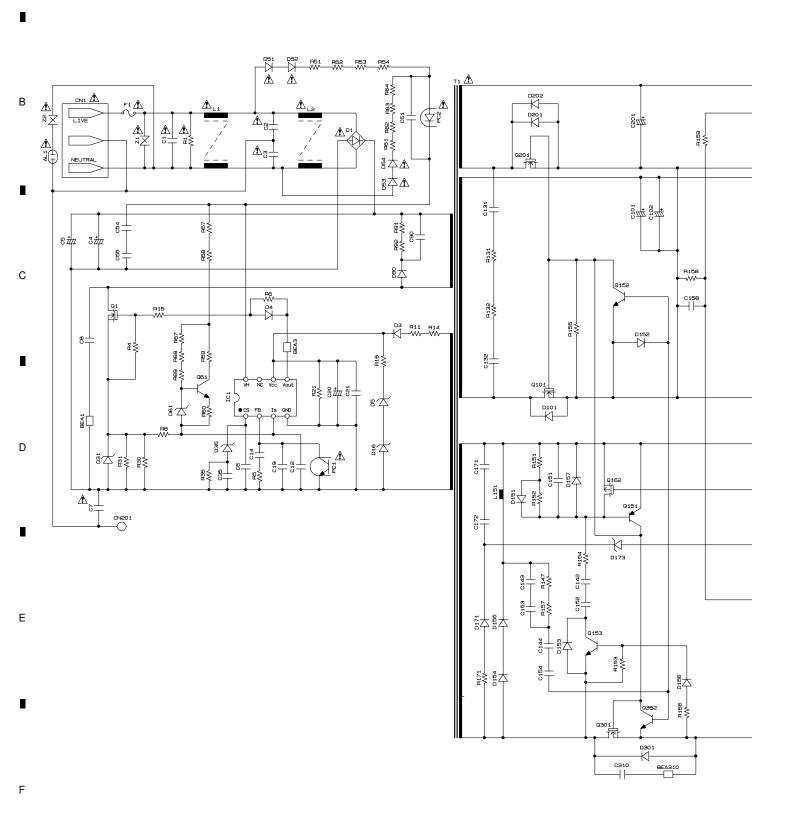
F

PDP-R06XE

3.27 POWER SUPPLY UNIT

POWER SUPPLY UNIT

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PDP-R06XE

CN101 4 STBY3. 3V ## | | | CN102 В -(12) STBY3. 3V IC181 R185 Б этвубу -(В) ЅТВУБУ 9 5v 8 5v 249 ¥391 a T R181 **№** £ 52 102 ≯ 0102 9 5v 10 5v H182 | | R257 ₩ P256 ▼ 885 | |-H203 H203 H202 H202 С F110 AC DET -(3) GND -(5) GND -(9) GND L 88 -(11) GND 1394 | | | -(13) GND -15 GND 3 NC -(5) 12V 12) 12V D R393 R391 84 164 | ≥ 24% # 1004 | | ₩ 1504 H701 -2 RELAY 24 ¥ (14) NC M173 -(1) 35V 55 16 35V 8 ± 8 ± 2 € \$ Е −⑦ 6. 5V Q161 10 6.5V **於** i → i | MS53 ß #zz 444 2 GND 4 GND 6 GND 4705 W C701 -(11) GND

PDP-R06XE

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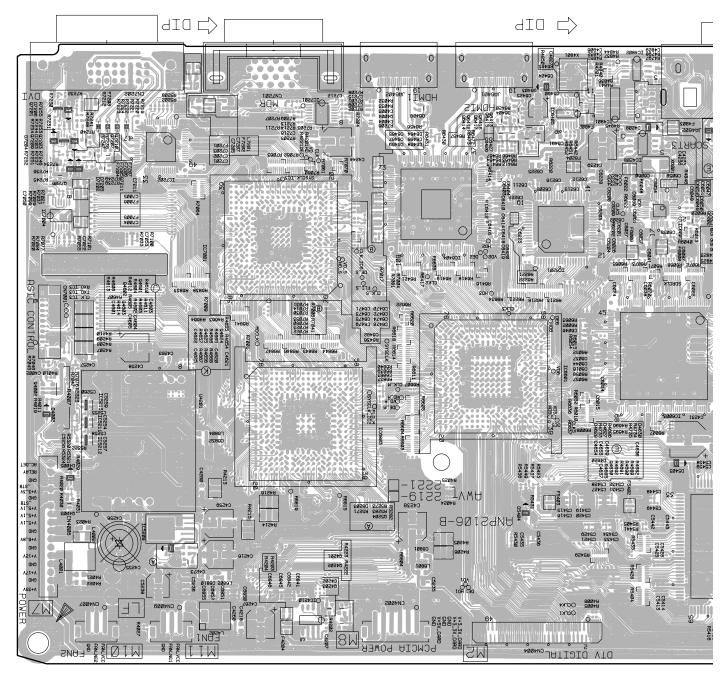
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4. PCB CONNECTION DIAGRAM 4.1 MR MAIN ASSY

SIDE A

В

MR MAIN ASSY



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PDP-R06XE

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SIDE A

В

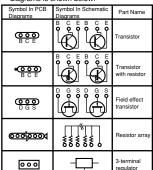
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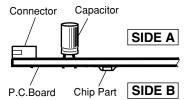
NOTE FOR PCB DIAGRAMS:

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.

 2. A comparison between the main parts of PCB and schematic
- diagrams is shown below.



- 3. The parts mounted on this PCB include all necessary parts for several destinations.
 For further information for respective destinations, be sure to
- check with the schematic diagram.
 4. View point of PCB diagrams.



JDI 0 0 O Ö 0 0 ∰ INK2M ZS748 255748 C2428 C2428 C4512 Σ FRONT UCOM WRITING

(ANP2106-B)

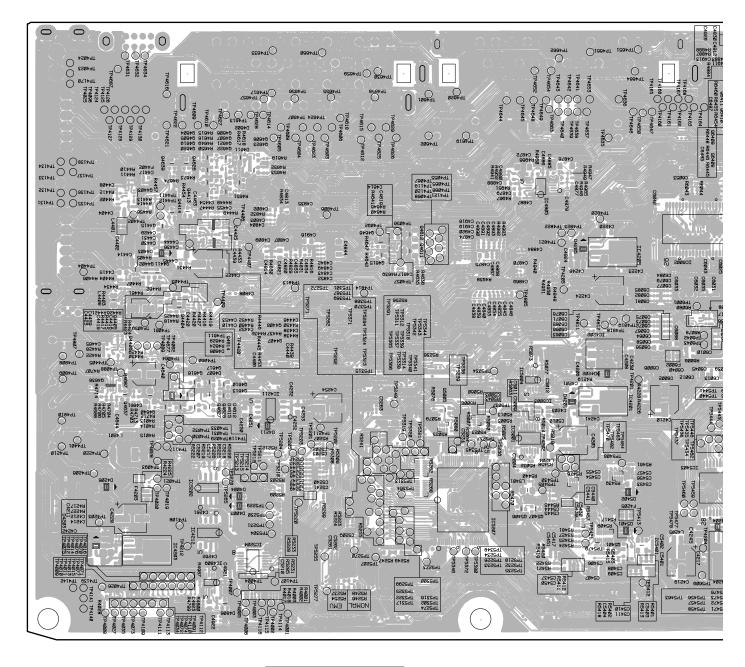
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PDP-R06XE

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SIDE B

MR MAIN ASSY



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PDP-R06XE

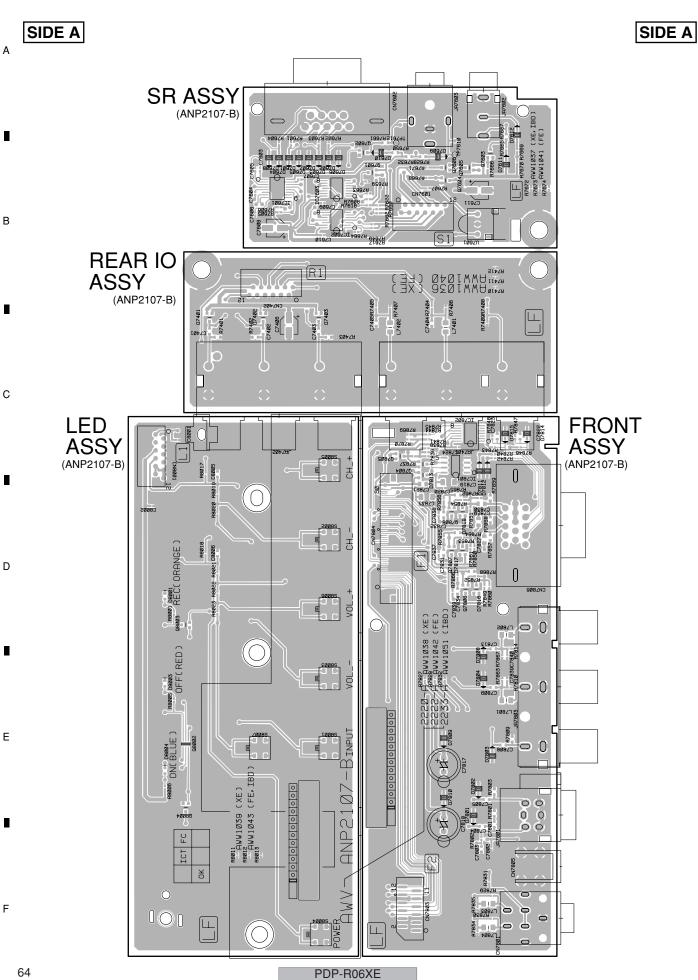
SIDE B

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(ANP2106-B)

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PDP-R06XE

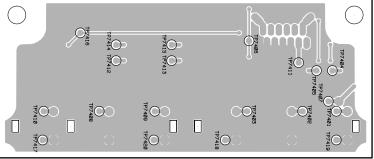


SIDE B SIDE B

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SR ASSY (ANP2107-B)

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REAR IO ASSY (ANP2107-B)

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TP8Ø1Ø TP8Ø22

TP8011

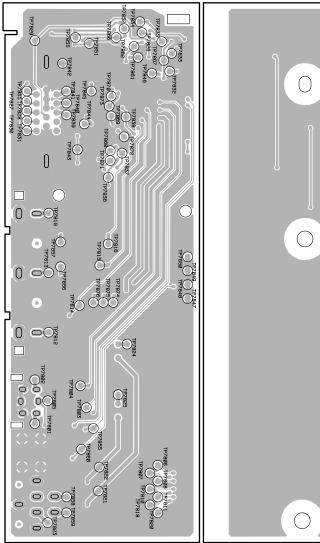
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TP8821

P8012 TP8018 TP8019 TP8020

FRONT ASSY (ANP2107-B)

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LED ASSY (ANP2107-B)

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PDP-R06XE

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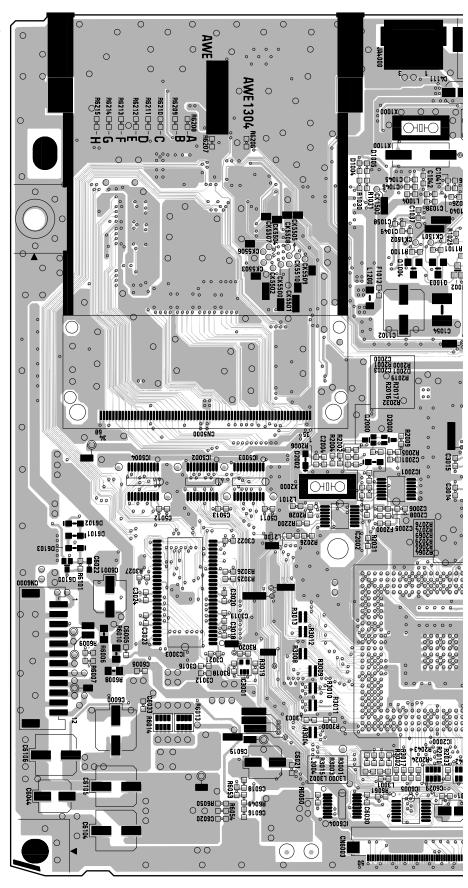
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4.3 R06 D-TUNER ASSY

SIDE A

В

R06 D-TUNER ASSY



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PDP-R06XE

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SIDE A 0 Besor # 2001 1000 B 00 0 0 (XNP1013-C)

PDP-R06XE

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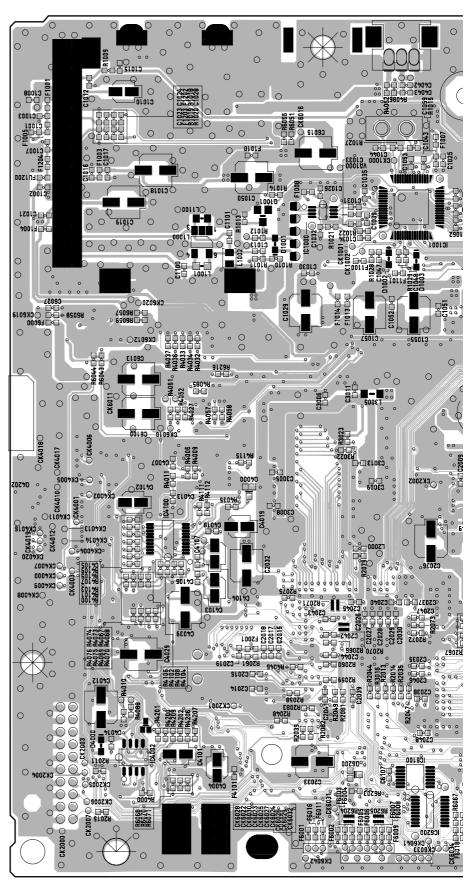
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SIDE B

R06 D-TUNER ASSY



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PDP-R06XE

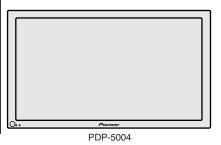
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Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3221

PLASMA DISPLAY

PDP-5004 PDP-4304 PDP-5014 PDP-4314

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Model | Туре | Power Requirement | Remarks |
|----------|------|-------------------|---------|
| PDP-5004 | KUC | AC120V | |
| PDP-5014 | KUC | AC120V | |
| PDP-4304 | KUC | AC120V | |
| PDP-4314 | KUC | AC120V | |

This service manual should be used together with the following manual(s).

| Model No. | Order No. | Remarks |
|--|-----------|---|
| PDP-5004, PDP-5014 PDP-4304, PDP-4314 | ARP3222 | SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM |



For details, refer to "Important Check Points for Good Servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2004

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components.

 Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.

 Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

PDP-5004

2

Leakage Current Cold Check

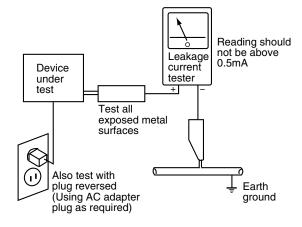
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

3

Ε

■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

| 1. POWER SUPPLY Unit | (223V) |
|-----------------------|-----------------|
| 2. 50 X DRIVE Assy | |
| 3. 50 Y DRIVE Assy | (353V) |
| 4. 50 SCAN A Assy | (353V) |
| 5. 50 SCAN B Assy | (353V) |
| 6. X CONNECTOR A Assy | (-230V to 223V) |
| 7. X CONNECTOR B Assy | (-230V to 223V) |

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

• For 50 inch model (PDP-5004, PDP-5014)

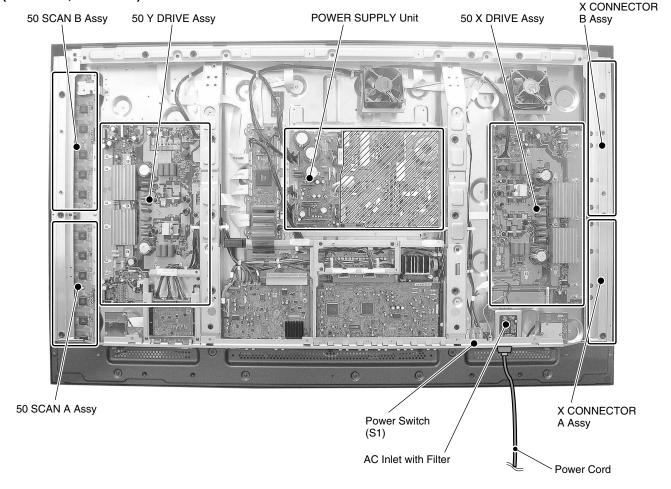


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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PDP-5004

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■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

| 1. POWER SUPPLY Unit | (215V) |
|-----------------------|-----------------|
| 2. 43 X DRIVE Assy | |
| 3. 43 Y DRIVE Assy | (345V) |
| 4. 43 SCAN A Assy | (345V) |
| 5. 43 SCAN B Assy | (345V) |
| 6. X CONNECTOR AAssy | (-225V to 215V) |
| 7. X CONNECTOR B Assy | (-225V to 215V) |

: Part is Charged Section.

 Part is the High Voltage Generating Points other than the Charged Section. В

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• For 43 inch model (PDP-4304, PDP-4314)

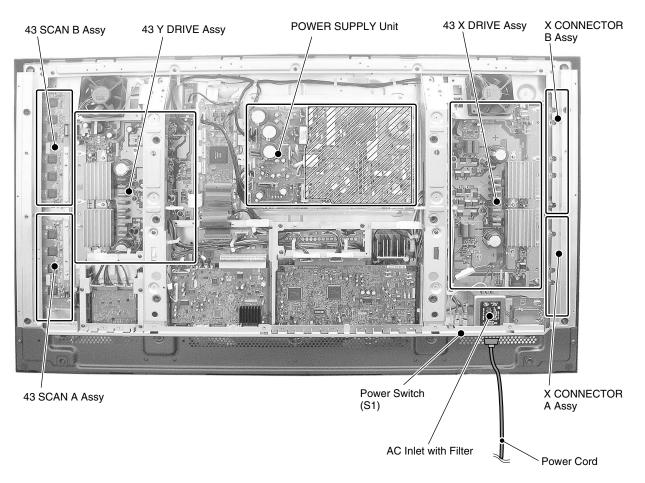


Fig.2 Charged Section and High Voltage Generating Point (Rear View)

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

Product safety



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Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

(8) There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

PDP-5004

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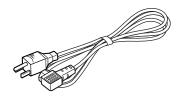
1. SPECIFICATIONS

■ PLASMA DISPLAY

| | Light emission panel 50-inch AC Plasma Panel | INPUT2 | HDMI |
|--|---|-------------------|---|
| | 109.8 (W) x 62.1 (H) x 126.1 (diagonal) cm | (Input) | • Digital signal 3.3V T.M.D.S. /50Ω |
| | Number of pixels | | |
| | Power supply AC 120 V, 60 Hz | INIDI ITO | |
| | Rated current | INPUT3 (Input) | S jack (Mini DIN 4 pin) |
| | Standby power consumption 0.6 W | (Input) | Y/C separate video signal |
| | External dimensions | | Y 1 Vp-p/75 Ω /negative sync. |
| | 1218 (W) x 714 (H) x 98 (D: Not including handles) mm | | C 0.286 Vp-p/75Ω |
| | 47-31/32 (W) x 28-1/8 (H) x 3-7/8 (D: Not including handles) in. | | (Color Burst Level) |
| | , | INPUT4 | DCA in als |
| | Weight | (Input) | RCA jack • Composite video signal |
| | Operating temperature range 0 to 40 °C (32 to 104 F) | | 1 Vp-p/75 Ω /negative sync. |
| | General (PDP-4304/ PDP-4314) | Output | RCA jack |
| | Light emission panel | | 75Ω /with buffer |
| | 95.2 (W) x 53.6 (H) x 109.3 (diagonal) cm | INPUT5 | |
| | Number of pixels | (Input) | RCA jack |
| | Power supply AC 120 V, 60 Hz | | Component video signal Component video signal |
| | Rated current | | Y1 Vp-p /75 Ω negative sync. Cb/Pb, Cr/Pr |
| | Standby power consumption 0.6 W | | 0.7 Vp-p (color 100%) / 75Ω |
| | External dimensions | | RGB signal |
| | 1070 (W) x 630 (H) x 98 (D: Not including handles) mm | | G ON SYNC |
| | 42-1/8 (W) x 24-13/16 (H) x 3-7/8 (D: Not including handles) in. | | 1 Vp-p/75 Ω /negative sync. |
| | Weight | Audio | R/B 0.7 Vp-p/75 Ω /no sync. |
| | Operating temperature range 0 to 40 °C (32 to 104°F) | (Input) | AUDIO INPUT (for INPUT1) |
| | oporating temperature range o to 10 '0 (02 to 10 11) | (, | Pin jack (x2) |
| | Input/output | | L/R 500 mVrms/more than 10 kg |
| | Video | | AUDIO INPUT (for INPUT2) |
| | INPUT1 | | Pin jack (x2) |
| | (Input) Mini D-sub 15 pin (socket connector) | | L/R 500 mVrms/more than 10 kg |
| | RGB signal (G ON SYNC compatible) | | AUDIO INPUT (for INPUT3) |
| | RGB 0.7 Vp-p/75 Ω /no sync. | | Pin jack (x2) |
| | HD/CS, VD TTL level | | L/R 500mVrms/more than 10 kΩ |
| | /positive and negative polarity /2.2 k Ω | | AUDIO INPUT (for INPUT4) |
| | G ON SYNC | | Pin jack (x2) |
| | 1 Vp-p/75 Ω /negative sync. | | L/R 500mVrms/more than 10 kΩ |
| | *Compatible with Microsoft Plug & Play | | AUDIO INPUT (for INPUT5) |
| | (VESA DDC1/2B) | | Pin jack (x2) |
| | Component video signal Y 1 Vp-p/75Ω negative sync. | | L/R 500mVrms/more than 10 kΩ |
| | Св/Рв, Ск/Рв 0.7 Vp-p (color100%)/75Ω | Output | SPEAKER |
| | | | L/R 8 – $16\Omega/7$ W +7 W (at 8Ω) |
| | | Control | |
| | | RS-2320 | C D-sub 9 pin (pin connector) |
| | | | |

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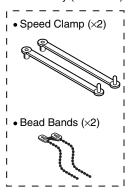
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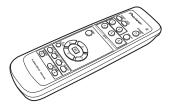
• Cleaning Cloth (for wiping front panel) (AED1208)



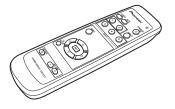
• Binder Assy (AEC1758)



• Remote Control Unit for PDP-5004, PDP-4304 (AXD1496)



• Remote Control Unit for PDP-5014, PDP-4314 (AXD1497)



• Dry Cell Battery (R6P, AA)



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2. EXPLODED VIEWS AND PARTS LIST

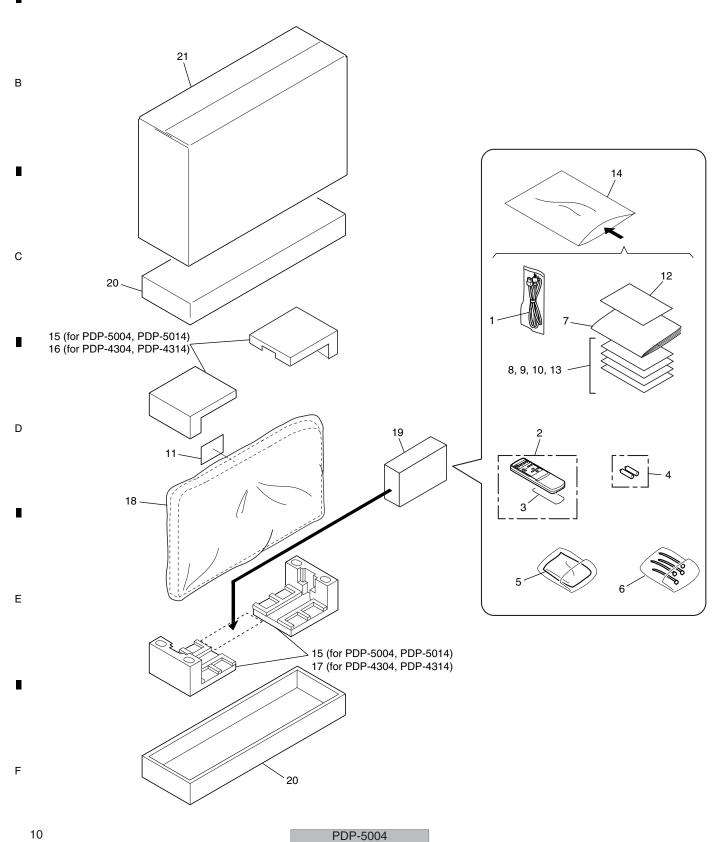
NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- Screws adjacent to **▼** mark on product are used for disassembly.

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• For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING for PDP-5004, PDP-5014, PDP-4304 and PDP-4314 models 2.1.1 PACKING



PACKING Parts List

| Mark No. | <u>Description</u> | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------|------------------------------|------------------------|----------|--------------------|------------------------|---|
| <u> </u> | Power Cord | ADG1215 | | | | |
| 2 | Remote Control Unit | See Contrast table (2) | 14 | Vinyl Bag | AHG1310 | Α |
| 3 | Battery Cover | AZN2462 | 15 | Pad | See Contrast table (2) | |
| NSP 4 | Dry Cell Battery (R6P, AA) | AEX1026 | 16 | Pad (43U) | See Contrast table (2) | |
| 5 | Wiping Cloth (for screen) | AED1208 | 17 | Pad (43L) | See Contrast table (2) | |
| 6 | Binder Assy | AEC1758 | 18 | Mirror Mat | AHG1284 | |
| | (Speed Clamp x2, Bead Band | (2) | 19 | Accessory Case | AHC1036 | |
| 7 | Operating Instructions | ARE1386 | 20 | Under Carton | See Contrast table (2) | |
| | (English / French / Spanish) | | 21 | Upper Carton | See Contrast table (2) | |
| 8 | Plasma Caution Sheet | ARM1145 | | | | |
| 9 | Caution Sheet | ARM1176 | | | | В |
| 10 | Caution Sheet | ARM1194 | | | | |
| 11 | Caution Sheet | ARM1201 | | | | |
| NSP 12 | Warranty Card | ARY1138 | | | | |
| NSP 13 | Card | VRY1132 | | | | |
| | | | | | | |

(2) CONTRAST TABLE PDP-5004/KUC, PDP-4304/KUC and PDP-4314/KUC are constructed the same except for the following the same except for the same except for the following the same except for the s lowing:

| Mark | No. | Symbol and Description | PDP-5004/ KUC | PDP-5014/ KUC | PDP-4304/ KUC | PDP-4314/ KUC |
|------|-----|------------------------|------------------|------------------|------------------|------------------|
| | 2 | Remote Control Unit | AXD1496 | AXD1497 | AXD1496 | AXD1497 |
| | 15 | Pad | AHA2280 | AHA2280 | Not used | Not used |
| | 16 | Pad (43U) | Not used | Not used | AHA2282 | AHA2282 |
| | 17 | Pad (43L) | Not used | Not used | AHA2283 | AHA2283 |
| | 20 | Under Carton | AHD3037 | AHD3037 | AHD3100 | AHD3100 |
| | 21 | Upper Carton | AHD3286 | AHD3288 | AHD3287 | AHD3289 |

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2.2 PDP-5004, PDP-5014 models 2.2.1 CHASSIS SECTION (1)

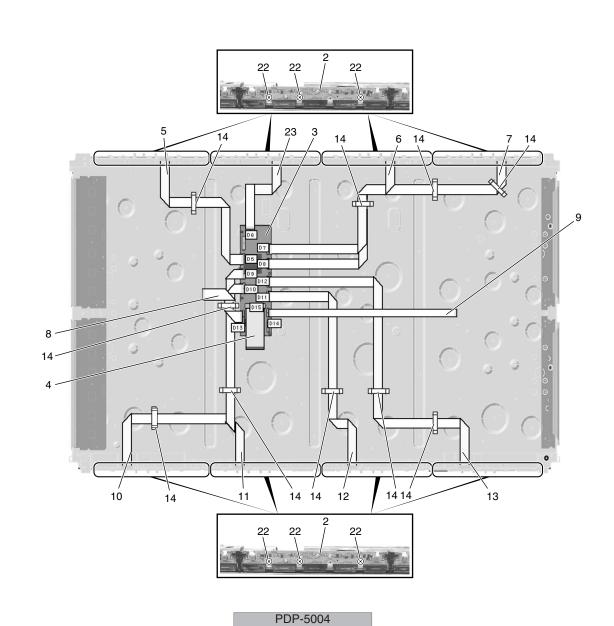
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CHASSIS SECTION (1) parts List

| | ` ' ' | |
|----------|-----------------------|----------|
| Mark No. | <u>Description</u> | Part No. |
| NSP 1 | P. Chassis (50) Assy | AWU1099 |
| NSP 2 | 50 ADDRESS Assy | AWZ6839 |
| 3 | DIGITAL VIDEO Assy | AWV2100 |
| 4 | FPC (114P) | ADY1081 |
| 5 | Flexible Cable (J201) | ADD1248 |
| | | |
| 6 | Flexible Cable (J203) | ADD1250 |
| 7 | Flexible Cable (J204) | ADD1251 |
| 8 | Flexible Cable (J209) | ADD1236 |
| 9 | Flexible Cable (J210) | ADD1237 |
| 10 | Flexible Cable (J205) | ADD1252 |
| | | |
| 11 | Flexible Cable (J206) | ADD1253 |
| 12 | Flexible Cable (J207) | ADD1254 |
| 13 | Flexible Cable (J208) | ADD1255 |
| 14 | Flat Clamp | AEC1879 |

| Mark No. | <u>Description</u> | Part No. | |
|----------|------------------------|--------------|---|
| 15 | PCB Spacer | AEC1941 | |
| | | | Α |
| 16 | PCB Support | AEC1938 | |
| 17 | Wire Saddle | AEC1745 | |
| 18 | PCB Spacer | AEC1947 | |
| 19 | Locking Wire Saddle | AEC1948 | |
| 20 | Drive Silicone Sheet C | AEH1066 | |
| | | | |
| 21 | Drive Silicone Sheet B | AEH1065 | |
| 22 | Screw | VBB30P080FNI | |
| 23 | Flexible Cable (J202) | ADD1249 | |
| 24 | Locking Wire Saddle | AEC1992 | |
| 25 | SCAN Silicone Sheet | AEH1080 | В |
| | | | |

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3 2.2.2 CHASSIS SECTION (2) 10 100V 25 22 27 26 28 16 21 21 / 12 ₽ 21 ₽ 21 11 21 21 Upper side Upper side

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| | 5 | - | 6 | - | 7 | - | 8 |
|--------------------------------|--------------------|----|---------|---|---|---|---|
| CHASSIS SECTION (2) parts List | | | | | | | |
| Mark No. | Description | Pa | art No. | | | | |

| | ` ' ' | |
|------------|-------------------------|---------------|
| Mark No. | <u>Description</u> | Part No. |
| 1 | 50 X DRIVE Assy | AWZ6959 |
| 2 | 50 Y DRIVE Assy | AWV2144 |
| <u>^</u> 3 | POWER SUPPLY Unit | AXY1083 |
| NSP 4 | X CONNECTOR B Assy | AWZ6812 |
| NSP 5 | X CONNECTOR A Assy | AWZ6811 |
| | | |
| NSP 6 | 50 SCAN A Assy | AWZ6809 |
| NSP 7 | 50 SCAN B Assy | AWZ6810 |
| 8 | PANEL SENSOR Assy | AWZ6795 |
| 9 | Fan Motor (80 x 25) | AXM1044 |
| 10 | Fan Angle (504) | ANG2609 |
| | | |
| 11 | Front Chassis VL (50M) | ANA1753 |
| 12 | Front Chassis VR (50M) | ANA1754 |
| 13 | SCAN Heatsink | ANH1630 |
| 14 | Housing Wire (J117) | ADX2897 |
| 15 | Screw | ABZ30P060FMC |
| | | |
| 16 | Screw | PMB30P060FNI |
| 17 | Screw | VBB30P080FNI |
| 18 | Screw | PMB40P080FZK |
| 19 | Screw | PPZ50P100FZK |
| 20 | Nylon Rivet | AEC1671 |
| 04 | Corour | AM720D060E71/ |
| 21 | Screw | AMZ30P060FZK |
| 22 | 3P Housing Wire (J109) | ADX2847 |
| 23 | 11P Housing Wire (J102) | ADX2853 |
| 24 | 12P Housing Wire (J103) | ADX2854 |
| 25 | Wire A (J101) | ADX2839 |
| 26 | WireD (J118) | ADX3030 |
| 20 27 | 5P Housing Wire (J119) | ADX3030 |
| 28 | 9P Housing Wire (J115) | ADX2895 |
| 20 | or ribusing wife (0115) | ハレハとしむり |

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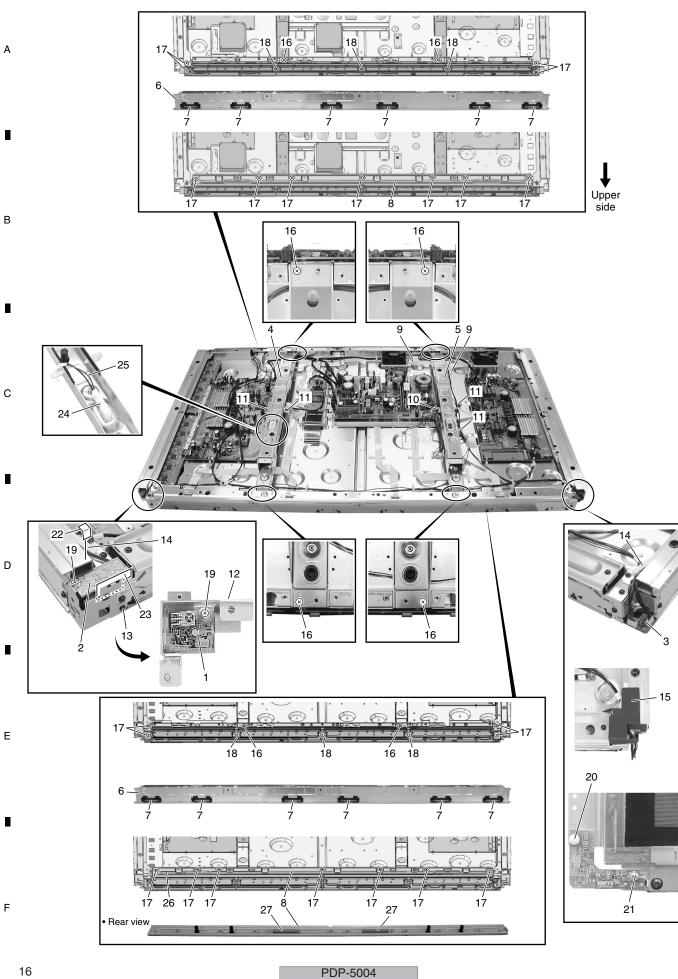
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2.2.3 FRAME SECTION



| • | 5 | 6 | 7 | _ | 8 | |
|----------|-------------------------|--------------|---|---|---|---|
| FRAME | SECTION parts List | | | | | |
| Mark No. | <u>Description</u> | Part No. | | | | |
| 1 | IR RECEIVE Assy | AWZ6855 | | | | |
| 2 | KEY CONTROL Assy | AWZ6969 | | | | Α |
| 3 | LED Assy | AWZ6966 | | | | |
| 4 | Sub Frame L Assy (50M) | ANG2596 | | | | |
| 5 | Sub Frame R Assy (50M) | ANG2598 | | | | ļ |
| 6 | Front Chassis H (50) | ANA1733 | | | | _ |
| 7 | Front Spacer (CMX) | AMR3384 | | | | |
| 8 | Rear Frame (50M) | ANG2602 | | | | |
| 9 | Locking Wire Saddle | AEC1948 | | | | |
| 10 | Locking Wire Saddle | AEC1992 | | | | |
| 11 | Wire Saddle | AEC1745 | | | | В |
| NSP 12 | IR Holder | ANG2551 | | | | |
| 13 | Nylon Rivet | AEC1671 | | | | |
| 14 | Flat Clamp | AEC1879 | | | | |
| 15 | Enclosure Sheet 1 | AMR3405 | | | | |
| 16 | Screw | AMZ30P080FMC | | | | |
| 17 | Screw | AMZ30P060FZK | | | | |
| 18 | Screw | APZ30P080FZK | | | | |
| 19 | Screw | ABZ30P060FMC | | | | |
| 20 | Nylon Rivet | AEC1997 | | | | С |
| 21 | Screw | BBZ30P050FMC | | | | J |
| 22 | Enclosure Sheet 2 (V) | AMR3411 | | | | |
| 23 | Enclosure Sheet 3 | AMR3407 | | | | |
| 24 | Power Switch (S2)(TRAP) | ASG1089 | | | | |
| 25 | 3P Housing Wire (J114) | ADX3032 | | | | |
| 26 | Gasket S (CM) | ANK1749 | | | | |
| 27 | Gasket (CM) | ANK1748 | | | | |
| | | | | | | |
| | | | | | | D |
| | | | | | | |

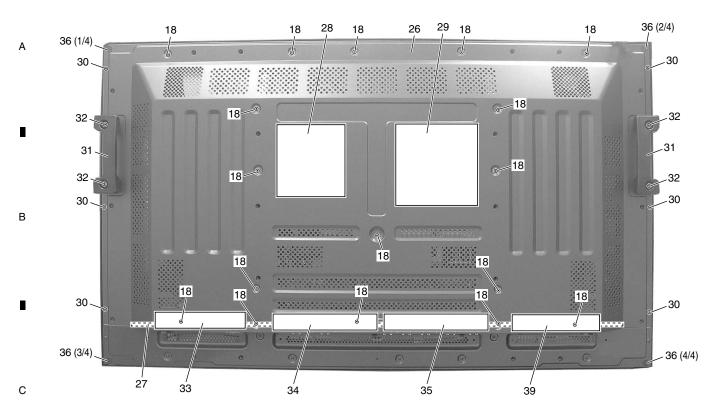
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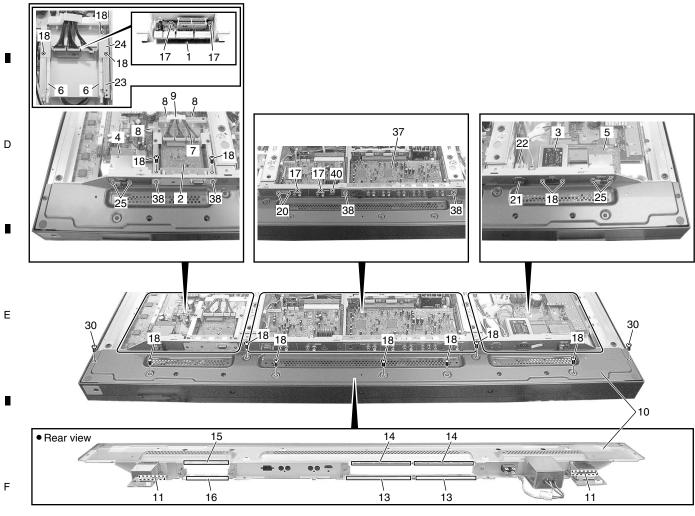
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2.2.4 TERMINAL PANEL and REAR SECTION





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TERMINAL PANEL and REAR SECTION parts List

| Mark No. | <u>Description</u> | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------|------------------------|--------------|----------|--------------------------|------------------------|----|
| 1 | COMM SLOT I/F Assy | AWZ6964 | ⚠ 21 | Power Switch (S1) | ASG1094 | |
| 2 | COMM SLOT Assy | AWZ6968 | 22 | Housing Wire (MX)(J116) | ADX2896 | Α |
| <u> </u> | AC Inlet (CN1) | AKP1244 | 23 | COMM Stay A | ANG2605 | ,, |
| 4 | SP TERMINAL R Assy | AWZ6857 | 24 | COMM Stay B | ANG2606 | |
| 5 | SP TERMINAL L Assy | AWZ6856 | 25 | Screw | APZ30P080FZK | |
| 6 | Guide Rail EX | AEC1994 | 26 | Rear Case (50M) | ANE1623 | _ |
| 7 | 6P Housing Wire (J108) | ADX3029 | 27 | Gasket T-R50 | ANK1735 | |
| 8 | Wire Saddle | AEC1745 | NSP 28 | Name Label | See Contrast table (2) | |
| 9 | Clamp | AEC1884 | 29 | Caution Label | AAX3048 | |
| 10 | Terminal Panel (F50) | ANG2685 | 30 | Screw | TBZ40P080FZK | |
| 11 | Gasket SP-T | ANK1734 | 31 | Grip | AMR3380 | В |
| 12 | •••• | | 32 | Screw | HMB50P140FZK | |
| 13 | Slot Spring B126 | ABK1033 | 33 | Terminal Label R (SF50C) | AAX3126 | |
| 14 | Slot Spring T130 | ABK1032 | 34 | Terminal Label C (SF50C) | AAX3130 | |
| 15 | Slot Spring T94 | ABK1034 | 35 | Terminal Label V (CM) | AAX3137 | |
| 16 | Slot Spring B92 | ABK1035 | 36 | Rear Corner Label (15) | AAX3081 | |
| 17 | Screw | VBB30P080FNI | 37 | VIDEO SLOT 2 Assy | AWV2159 | |
| 18 | Screw | AMZ30P060FZK | 38 | Screw | ABA1300 | |
| 19 | •••• | | 39 | Terminal Label L (50M) | AAX3061 | |
| 20 | Hexagon Head Screw | BBA1051 | 40 | Screw | BMZ30P080FZK | |
| | | | | | | С |

(2) CONTRAST TABLE PDP-5004/KUC and PDP-5014/KUC are constructed the same except for the following:

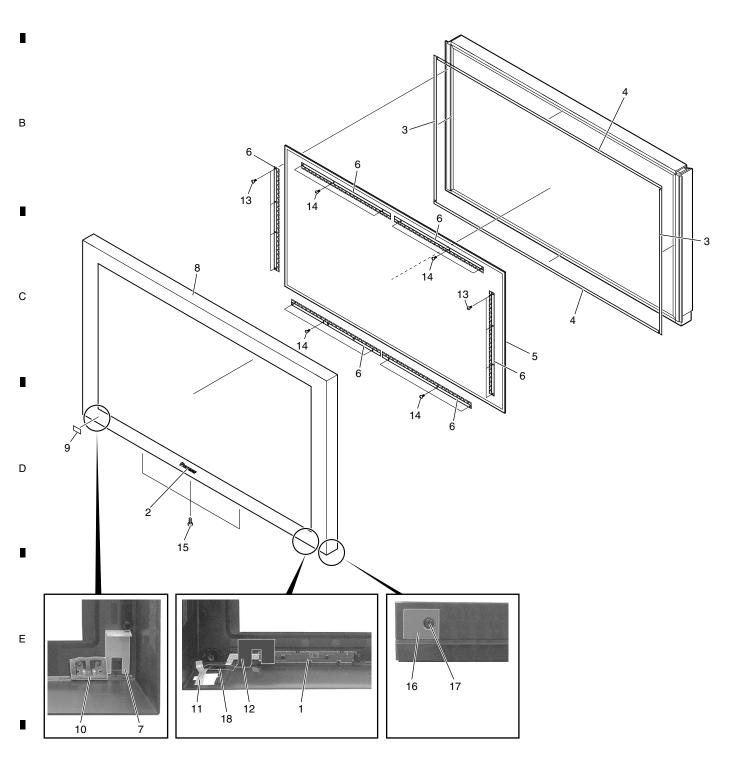
| | Mark | No. | Symbol and Description | PDP-5004/ KUC | PDP-5014/ KUC |
|---|------|-----|------------------------|------------------|------------------|
| ĺ | NSP | 28 | Name Label (SF50C) | AAL2593 | Not used |
| ı | NSP | 28 | Name Label (SF50S) | Not used | AAL2595 |

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FRONT SECTION parts List

| Mark No. | <u>Description</u> | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------|-------------------------|------------------------|----------|-----------------------|------------------------|---|
| 1 | FRONT KEY Assy | AWZ6970 | 11 | Flexible Cable (J211) | ADD1281 | |
| 2 | PIONEER Badge | AAM1091 | 12 | Flexible Seal (P) | AEH1072 | Α |
| 3 | Panel Cushion V | AED1199 | 13 | Screw | ABZ30P060FMC | , |
| 4 | Panel Cushion H | AED1226 | 14 | Screw | APZ30P080FZK | |
| | Protect Panel Assy (50) | AMR3348 | 15 | Screw | APZ30P120FZK | |
| 6 | Panel Holder (50) | ANG2563 | 16 | Lead Cover | See Contrast table (2) | |
| 7 | Earth Plate (MX) | AMR3432 | 17 | Rivet | AEC1877 | |
| 8 | Front Case Assy | See Contrast table (2) | 18 | Flexible Seal (SF) | AEH1082 | |
| NSP 9 | Energy Star Label | AAX8022 | | | | |
| 10 | Blind Cushion | AEB1400 | | | | |

(2) CONTRAST TABLE PDP-5004/KUC and PDP-5014/KUC are constructed the same except for the following:

| Ма | ark No. | Symbol and Description | PDP-5004/ KUC | PDP-5014/ KUC |
|----|---------|------------------------|------------------|------------------|
| | 8 | Front Case Assy (F50C) | AMB2843 | Not used |
| | 8 | Front Case Assy (F50S) | Not used | AMB2844 |
| | 16 | Lead Cover (SF) | AMR3436 | Not used |
| | 16 | Lead Cover (4G) | Not used | AMR3395 |

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2.2.6 PANEL CHASSIS (50) ASSY (AWU1099) Panel Chassis (50) Assy (AWU1099) Parts List

| Α | Mark No. | <u>Description</u> | Part No. |
|---|----------|-----------------------------|--------------------|
| | NSP | 150 ADDRESS Assy | AWV2121 |
| | NSP | 250 ADDRESS Assy | AWZ6839 |
| | NSP | 150 SCAN FUKUGO Assy | AWV2036 |
| | NSP | 250 SCAN A Assy | AWZ6809 |
| | NSP | 250 SCAN B Assy | AWZ6810 |
| | NSP | 2X CONNECTOR A Assy | AWZ6811 |
| | NSP | 2X CONNECTOR B Assy | AWZ6812 |
| | NSP | Address Module (IC1-IC40) | AXF1124 |
| | NSP | Plasma Panel Assy (50")(V1) | AAV1251 |
| В | NSP | FPC (50XGA-X) | ADY1084 |
| | NSP | FPC (50XGA-Y) | ADY1085 |
| | NSP | Chassis Assy (50) | ANA1774 |
| | | Edge Card Spacer | AEC1998 |
| | | PCB Spacer | AEC1944 |
| | | PCB Support | AEC1958 |
| | | Rivet | AMR1066 |
| | | FC Spacer | AMR3370 |
| • | NSP | Adhesive | ZBA-KE3424S |
| С | NSP | Cleaner | ZLX-AP7 |
| | NSP | Tape | ZTA-8101-12 |
| | NSP | Double Faced Tape | ZTB-5015-18 |
| | NSP | Tape | ZTC-POLYCA-11 |
| | NSP | Tape | ZTC-POLYCA-20 |
| | NSP | Double Faced Tape | ZTB-5015-9 |
| | NSP | Tape | ZTC-900UL-15 |
| | NSP | Silicone Rubber | ZTX-HC20-15 |
| | NSP | Wiping Cloth | ZTX-MX100-13 |
| D | NSP | Film | ZTX-2102Y35-2R5 |
| | NSP | Film | ZTX-2102Y45-5 |
| | NSP | Silicone Rubber | ZTX-HC50-15 |
| | NSP | Silicone Rubber | ZTC-EM7KBOR85T-15W |
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2.2.7 PDP SERVICE ASSY (AWU1108) PDP SERVICE Assy (AWU1108) Parts List

| i di ta | | |
|----------|------------------------|--------------|
| Mark No. | <u>Description</u> | Part No. |
| NSP | P. Chassis (50) Assy | AWU1099 |
| NSP | Front Chassis H (50) | ANA1733 |
| | F. Chassis VL (50M) | ANA1765 |
| | F. Chassis VR (50M) | ANA1766 |
| | Sub Frame L Assy (50M) | ANG2638 |
| | | |
| | Sub Frame R Assy (50M) | ANG2561 |
| | Scan Heatsink | ANH1630 |
| | Spacer | AEB1397 |
| | Wire Saddle | AEC1745 |
| | Clamp | AEC1884 |
| | | |
| | PCB Support | AEC1938 |
| | PCB Spacer | AEC1941 |
| | PCB Spacer | AEC1947 |
| | Wire Clip | AEC1948 |
| | Wire Clip | AEC1992 |
| | | |
| | Panel Cushion V | AED1199 |
| | Panel Cushion H | AED1226 |
| | Siricon Sheet SC | AEH1080 |
| | Front Spacer | AMR3369 |
| | Caution Label | AAX3031 |
| | | |
| NSP | Drive Voltage Label | ARW1097 |
| | Screw | ABZ30P100FZK |
| | Screw | AMZ30P060FZK |
| | Screw | AMZ30P080FMC |
| | Screw | APZ30P080FZK |
| | | |
| NSP | Front Case (504 SVC) | AMB2811 |
| | Rear Case (50P) | ARM1247 |
| | Caution Card (SVC) | AHA2280 |
| | Pad (PP T-L) | AHA2315 |
| | Pad (PP T-R) | AHA2316 |
| | • | |
| | Center Pad (50) | AHA2335 |
| | Pad (PP B-L) | AHA2343 |
| | Pad (PP B-R) | AHA2344 |
| | Sub Carton | AHB1248 |
| | Carton (50) | AHD3177 |
| | ` ' | |
| NSP | Upper Carton (504SVC) | AHD3212 |
| | Protect Sheet | AHG1331 |
| | | |

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|------------|--------------|----------|---|---|---|
| CHASSIS SE | CTION (1) pa | rts List | | | |

| | (/ 1 | |
|----------|--------------------------|--------------|
| Mark No. | <u>Description</u> | Part No. |
| NSP 1 | P. Chassis (43) Assy | AWU1098 |
| NSP 2 | 43 ADDRESS Assy | AWZ6793 |
| 3 | DIGITAL VIDEO Assy | AWV2100 |
| 4 | FPC (114P) | ADY1081 |
| 5 | Flexible Cable (J201) | ADD1257 |
| | | |
| 6 | Flexible Cable (J203) | ADD1259 |
| 7 | Flexible Cable (J204) | ADD1260 |
| 8 | Flexible Cable (J209) | ADD1223 |
| 9 | Flexible Cable (J210) | ADD1224 |
| 10 | Flexible Cable (J205) | ADD1261 |
| | | |
| 11 | Flexible Cable (J206) | ADD1262 |
| 12 | Flexible Cable (J207) | ADD1263 |
| 13 | Flexible Cable (J208) | ADD1264 |
| 14 | Ferrite Core | ATX1048 |
| 15 | Flat Clamp | AEC1879 |
| | | |
| 16 | PCB Spacer | AEC1941 |
| 17 | PCB Support | AEC1938 |
| 18 | PCB Spacer | AEC1944 |
| 19 | PCB Support | AEC1958 |
| 20 | Ferrite Clamp | AEC1986 |
| | | |
| 21 | Wire Saddle | AEC1745 |
| 22 | PCB Spacer | AEC1947 |
| 23 | Locking Wire Saddle | AEC1948 |
| 24 | Drive Silicone Sheet C | AEH1066 |
| 25 | Drive Silicone Sheet B | AEH1065 |
| | | |
| 26 | Y Drive Protection Sheet | AMR3346 |
| 27 | Screw | VBB30P080FNI |
| 28 | Flexible Cable (J202) | ADD1258 |
| 29 | Locking Wire Saddle | AEC1992 |
| 30 | Harness Lifter 18 | AEC1980 |
| | | |
| 31 | Edge Card Spacer | AEC1998 |

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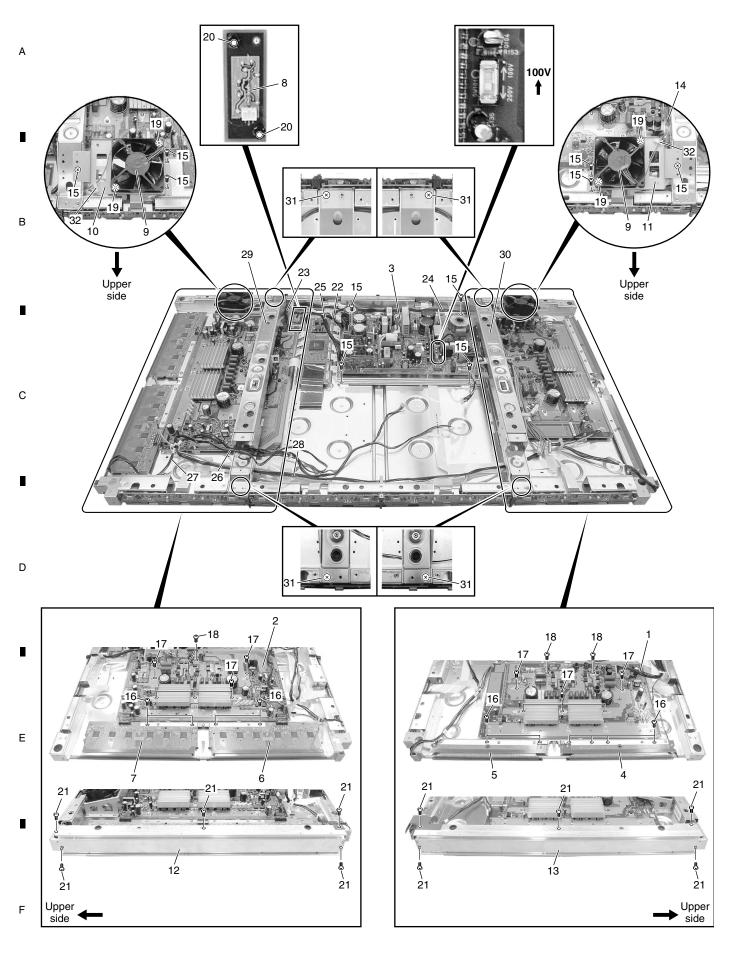
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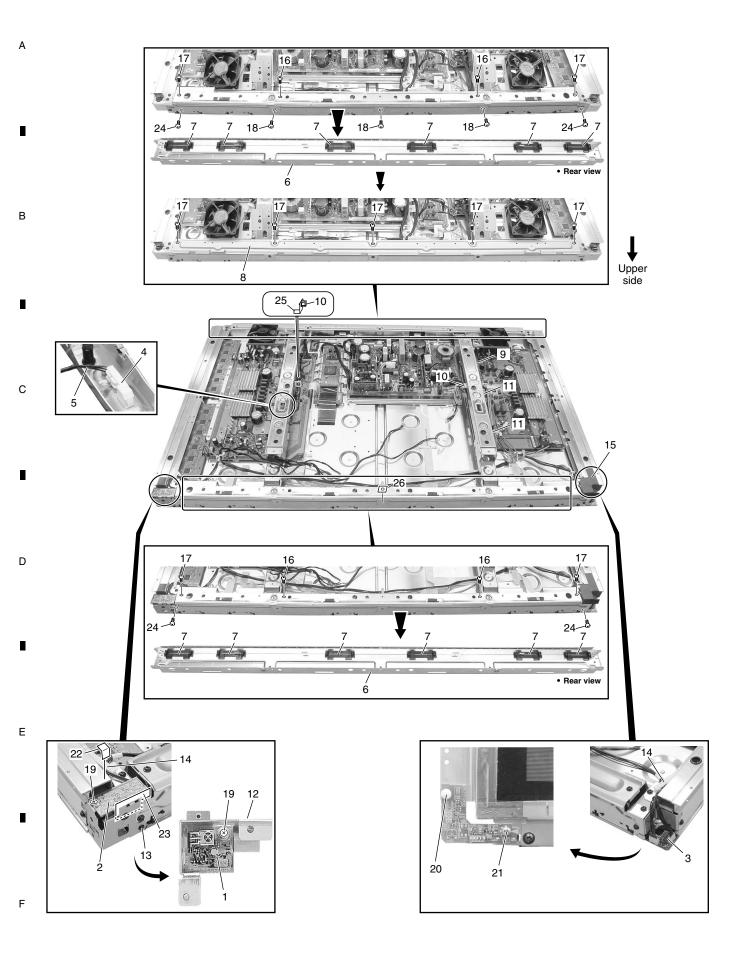
| | | 5 | 6 |
|----------|------|-----------------------|----------|
| CHAS | SSIS | S SECTION (2) parts L | ist |
| Mark | No. | Description | Part No. |
| | 1 | 43 X DRIVE Assy | AWZ6840 |
| | 2 | 43 Y DRIVE Assy | AWV2022 |
| <u> </u> | 3 | POWER SUPPLY Unit | AXY1083 |
| NSP | 4 | X CONNECTOR B Assy | AWZ6799 |
| NSP | 5 | X CONNECTOR A Assy | AWZ6798 |
| NSP | 6 | 43 SCAN A Assy | AWZ6796 |
| NSP | 7 | 43 SCAN B Assy | AWZ6797 |
| | 8 | PANEL SENSOR Assy | AWZ6795 |
| <u> </u> | 9 | Fan Motor (80 x 25) | AXM1044 |
| | 10 | Fan Angle L (43M) | ANG2655 |

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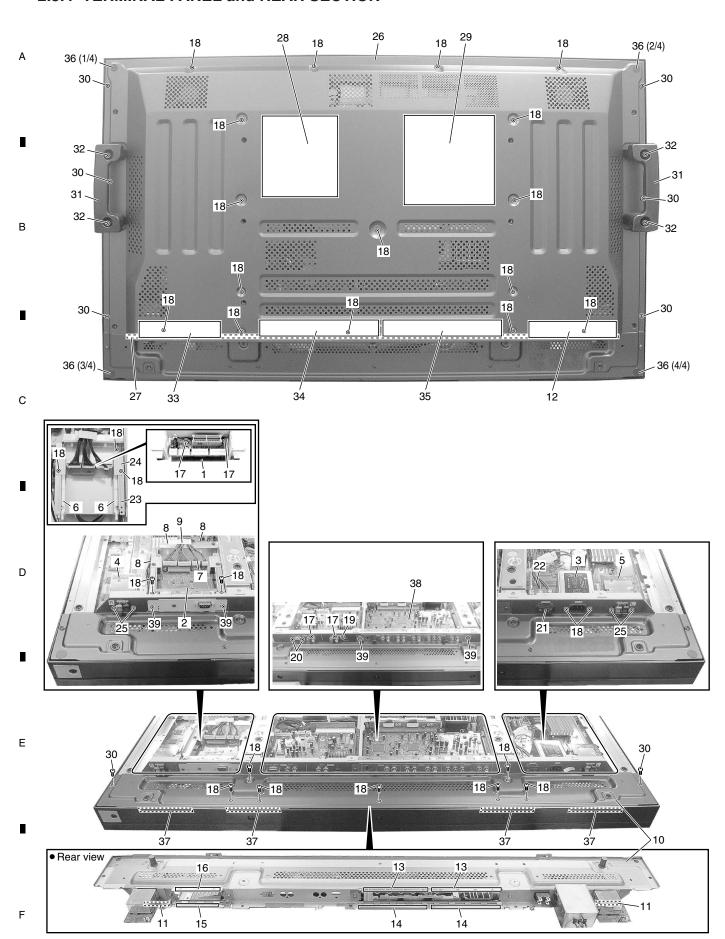
| | 5 | 6 | - | 7 | - | 8 | |
|----------|-------------------------|--------------|---|---|---|---|-----|
| FRAME | SECTION parts List | | | | | | |
| Mark No. | <u>Description</u> | Part No. | | | | | |
| 1 | IR RECEIVE Assy | AWZ6855 | | | | | |
| 2 | KEY CONTROL Assy | AWZ6969 | | | | | Α |
| 3 | LED Assy | AWZ6966 | | | | | , , |
| 4 | Power Switch (S2)(TRAP) | ASG1089 | | | | | |
| 5 | 3P Housing Wire (J114) | ADX3036 | | | | | |
| 6 | Front Chassis H (43) | ANA1714 | | | | | _ |
| 7 | Front Spacer (CMX) | AMR3384 | | | | | |
| 8 | Rear Frame (43M) | ANG2613 | | | | | |
| 9 | Locking Wire Saddle | AEC1948 | | | | | |
| 10 | Locking Wire Saddle | AEC1992 | | | | | |
| 11 | Wire Saddle | AEC1745 | | | | | В |
| NSP 12 | IR Holder | ANG2551 | | | | | |
| 13 | Nyron Rivet | AEC1671 | | | | | |
| 14 | Flat Clamp | AEC1879 | | | | | |
| 15 | Enclosure Sheet 1 | AMR3405 | | | | | |
| 16 | Screw | AMZ30P080FMC | | | | | |
| 17 | Screw | AMZ30P060FZK | | | | | |
| 18 | Screw | APZ30P080FZK | | | | | |
| 19 | Screw | ABZ30P060FMC | | | | | |
| 20 | Nyron Rivet | AEC1997 | | | | | С |
| 21 | Screw | BBZ30P050FMC | | | | | |
| 22 | Enclosure Sheet 2 (V) | AMR3411 | | | | | |
| 23 | Enclosure Sheet 3 | AMR3407 | | | | | |
| 24 | Screw | PMB30P060FNI | | | | | |
| 25 | Cable Cover | AMR3431 | | | | | I |
| NSP 26 | Front Case Spacer | AMR3430 | | | | | |
| | | | | | | | |
| | | | | | | | Б |
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2.3.4 TERMINAL PANEL and REAR SECTION



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TERMINAL PANEL and REAR SECTION parts List

| Mark No. | Description | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------|------------------------|--------------|----------|--------------------------|------------------------|----|
| 1 | COMM SLOT I/F Assy | AWZ6964 | <u> </u> | Power Switch (S1) | ASG1094 | |
| 2 | COMM SLOT Assy | AWZ6968 | 22 | Housing Wire (MX)(J116) | ADX2896 | Α |
| <u> </u> | AC Inlet (CN1) | AKP1244 | 23 | COMM Stay A | ANG2605 | ,, |
| 4 | SP TERMINAL R Assy | AWZ6857 | 24 | COMM Stay B | ANG2606 | |
| 5 | SP TERMINAL L Assy | AWZ6856 | 25 | Screw | APZ30P080FZK | |
| 6 | Guide Rail EX | AEC1994 | 26 | Rear Case (43M) | ANE1624 | _ |
| 7 | 6P Housing Wire (J108) | ADX3033 | 27 | Gasket T-R43 | ANK1736 | |
| 8 | Wire Saddle | AEC1745 | NSP 28 | Name Label | See Contrast table (2) | |
| 9 | Clamp | AEC1884 | 29 | Caution Label (M) | AAX3048 | |
| 10 | Terminal Panel (F43) | ANG2687 | 30 | Screw | TBZ40P080FZK | |
| 11 | Gasket SP-T | ANK1734 | 31 | Grip | AMR3380 | В |
| 12 | Terminal Label L (43M) | AAX3062 | 32 | Screw | HMB50P140FZK | |
| 13 | Slot Spring B126 | ABK1033 | 33 | Terminal Label R (SF43C) | AAX3128 | |
| 14 | Slot Spring T130 | ABK1032 | 34 | Terminal Label C (SF43C) | AAX3130 | |
| 15 | Slot Spring T94 | ABK1034 | 35 | Terminal Label V (CM) | AAX3137 | |
| 16 | Slot Spring B92 | ABK1035 | 36 | Rear Corner Label (15) | AAX3081 | |
| 17 | Screw | VBB30P080FNI | 37 | Spacer | AMR3433 | |
| 18 | Screw | AMZ30P060FZK | 38 | VIDEO SLOT 2 Assy | AWV2159 | |
| 19 | Screw | BMZ30P080FZK | 39 | Screw | ABA1300 | |
| 20 | Hexagon Head Screw | BBA1051 | | | | |
| | | | | | | С |

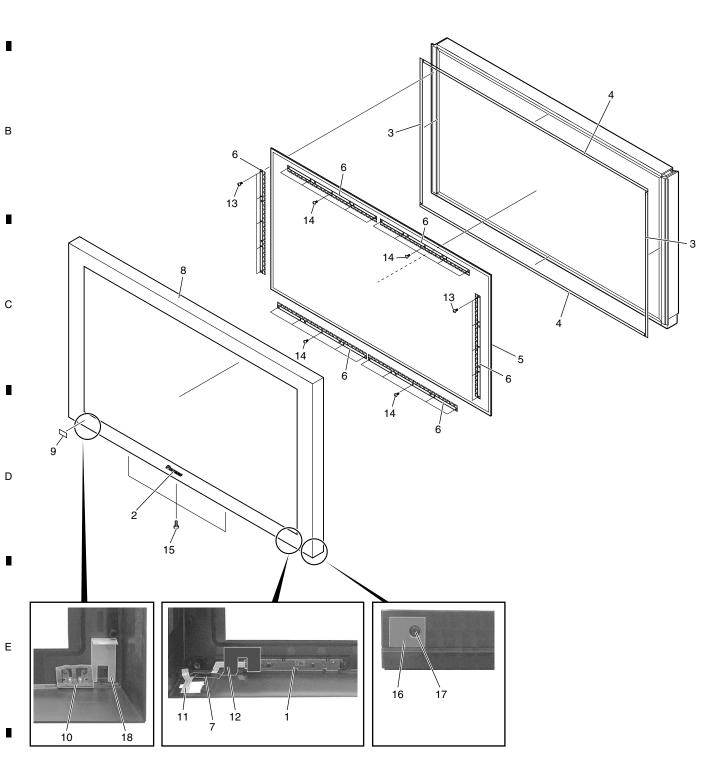
(2) CONTRAST TABLE PDP-4304/KUC and PDP-4314/KUC are constructed the same except for the following:

| | Mark | No. | Symbol and Description | PDP-4304/ KUC | PDP-4314/ KUC |
|---|------|-----|------------------------|------------------|------------------|
| ĺ | NSP | 28 | Name Label (SF43C) | AAL2594 | Not used |
| | NSP | 28 | Name Label (SF43S) | Not used | AAL2596 |

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FRONT SECTION (1) parts List

| Mark No. | <u>Description</u> | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------|-------------------------|------------------------|----------|-----------------------|------------------------|----|
| 1 | FRONT KEY Assy | AWZ6970 | 11 | Flexible Cable (J211) | ADD1281 | |
| 2 | Pioneer Name Plate | AAM1091 | 12 | Flexible Seal (P) | AEH1072 | Α |
| 3 | Panel Cushion V (43M) | AED1254 | 13 | Screw | ABZ30P060FMC | ,, |
| 4 | Panel Cushion H (43M) | AED1253 | 14 | Screw | APZ30P080FZK | |
| ⚠ 5 | Protect Panel Assy (43) | AMR3345 | 15 | Screw | APZ30P120FZK | |
| NSP 6 | Panel Holder (43) | ANG2552 | 16 | Lead Cover | See Contrast table (2) | |
| 7 | Flexible Seal (SF) | AEH1082 | 17 | Rivet | AEC1877 | |
| 8 | Front Case Assy | See Contrast table (2) | 18 | Earth Plate (MX) | AMR3432 | |
| 9 | Energy Star Label | AAX8022 | | | | |
| 10 | Blind Cushion | AEB1400 | | | | |

(2) CONTRAST TABLE PDP-4304/KUC and PDP-4314/KUC are constructed the same except for the following:

| | Mark | No. | Symbol and Description | PDP-4304/ KUC | PDP-4314/ KUC |
|---|------|-----|------------------------|------------------|------------------|
| ĺ | | 8 | Front Case Assy (F43C) | AMB2846 | Not used |
| | | 8 | Front Case Assy (F43S) | Not used | AMB2847 |
| | | 16 | Lead Cover (SF) | AMR3436 | Not used |
| | | 16 | Lead Cover (4G) | Not used | AMR3395 |

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2.3.6 PANEL CHASSIS (43) ASSY (AWU1098) Panel Chassis (43) Assy (AWU1098) Parts List

| | · Fai is L | ısı | |
|---|------------|-----------------------------|--------------------|
| Α | Mark No. | <u>Description</u> | Part No. |
| ^ | NSP | 143 ADDRESS Assy | AWV2120 |
| | NSP | 243 ADDRESS Assy | AWZ6793 |
| | NSP | 143 SCAN FUKUGO Assy | AWV2023 |
| | NSP | 243 SCAN A Assy | AWZ6796 |
| | NSP | 243 SCAN B Assy | AWZ6797 |
| | NSP | 2X CONNECTOR A Assy | AWZ6798 |
| | NSP | 2X CONNECTOR B Assy | AWZ6799 |
| | NSP | Address Module (IC1-IC32) | AXF1124 |
| | NSP | Plasma Panel Assy (43")(V1) | AAV1250 |
| В | NSP | FPC (43XGA-X) | ADY1079 |
| | NSP | FPC (43XGA-Y) | ADY1080 |
| | NSP | Chassis Assy (43) | ANA1773 |
| | | PCB Spacer | AEC1944 |
| | | PCB Support | AEC1958 |
| - | | Edge Card Spacer | AEC1998 |
| | | Rivet | AMR1066 |
| | | FC Spacer | AMR3370 |
| | NSP | Adhesive | ZBA-KE3424S |
| С | NSP | Cleaner | ZLX-AP7 |
| | NSP | Tape | ZTA-8101-12 |
| | NSP | Double Faced Tape | ZTB-5015-18 |
| | NSP | Double Faced Tape | ZTB-5015-9 |
| | NSP | Tape | ZTC-POLYCA-11 |
| | NSP | Tape | ZTC-POLYCA-20 |
| | NSP | Tape | ZTC-900UL-15 |
| | NSP | Wiping Cloth | ZTX-MX100-13 |
| | NSP | Film | ZTX-2102Y35-2R5 |
| D | NSP | Film | ZTX-2102Y45-2R5 |
| | NSP | Film | ZTX-2102Y45-5 |
| | NSP | Silicone Rubber | ZTC-EM7KB0R85T-15W |
| | NSP | Silicone Rubber | ZTX-HC50-15 |
| | NSP | Silicone Rubber | ZTX-HC20-15 |
| _ | | | |

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2.3.7 PDP SERVICE ASSY (AWU1109) PDP SERVICE Assy (AWU1109) • Parts List

| Mark No. | <u>Description</u> | Part No. |
|----------|--------------------------|--------------|
| NSP | P. Chassis (43) Assy | AWU1098 |
| NSP | Front Chassis H (43) | ANA1714 |
| | F Chassis VL (43M) | ANA1762 |
| | F Chassis VR (43M) | ANA1763 |
| | Sub Frame L Assy (43M) | ANG2545 |
| | Sub Frame R Assy (43M) | ANG2548 |
| | Spacer | AEB1397 |
| | Edging Saddle | AEC1737 |
| | Wire Saddle | AEC1745 |
| | Clamp | AEC1884 |
| | PCB Support | AEC1938 |
| | PCB Spacer | AEC1941 |
| | PCB Spacer | AEC1947 |
| | Locking Wire Saddle | AEC1948 |
| | HL18 | AEC1980 |
| | Ferrite Clamp | AEC1986 |
| | Locking Wire Saddle | AEC1992 |
| | Panel Cushion H (43M) | AED1253 |
| | Panel Cushion V (43M) | AED1254 |
| | Y Drive Protection Sheet | AMR3346 |
| | Front Spacer | AMR3369 |
| | Caution Label | AAX3031 |
| NSP | Drive Voltage Label | ARW1097 |
| | Screw | ABZ30P100FZK |
| | Screw | AMZ30P060FZK |
| | Screw | AMZ30P080FMC |
| | Screw | APZ30P080FZK |
| | Screw | VBB30P080FNI |
| NSP | Front Case (434 SVC) | AMB2810 |
| | Rear Case (43P) | ANE1612 |
| NSP | Exchange Panel Sheet | ARM1250 |
| | Pad (PP T-L) | AHA2315 |
| | Pad (PP T-R) | AHA2316 |
| | Center Pad (43) | AHA2336 |
| | Pad (PP B-L) | AHA2343 |
| | Pad (PP B-R) | AHA2344 |
| | Carton (43PU) | AHD3193 |
| | Upper Carton (434S) | AHD3204 |
| | Protect Sheet | AHG1331 |
| | | |

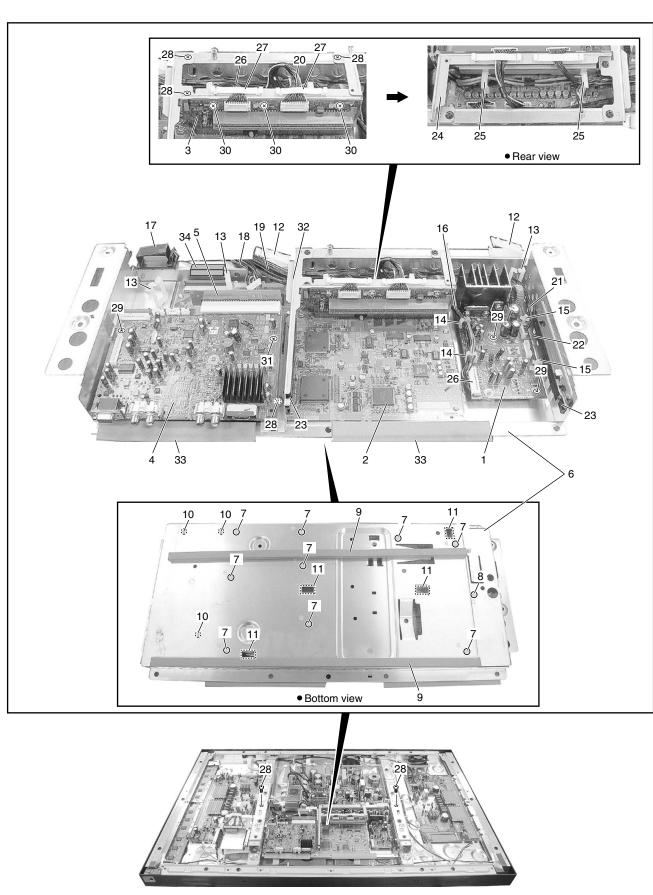
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2.4 MULTI BASE SECTION for PDP-5004, PDP-5014, PDP-4304 and PDP-4314 2.4.1 MULTI BASE SECTION

Note: This illustration is PDP-5004.

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MULTI BASE SECTION parts List

| Mark No. | Description | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------|-----------------------------|------------------------|----------|----------------------------|------------------------|----|
| 1 | AUDIO AMP Assy | AWZ6848 | 19 | 10P Housing Wire (J113) | ADX2908 | |
| 2 | RGB Assy | AWZ6961 | 20 | 12P Housing Wire (J112) | ADX2892 | Α |
| 3 | VIDEO SLOT I/F Assy | AWZ6851 | | | | ,, |
| 4 | AV I/O Assy | See Contrast table (2) | 21 | 13P/6P Housing Wire (J104) | ADX2910 | |
| 5 | AV I/O I/F Assy | AWZ6859 | 22 | COVER Assy | AWZ6858 | |
| | | | 23 | Guide Rail EX | AEC1994 | |
| 6 | Multi Base (CMX) | ANA1757 | 24 | Slot Stay | ANG2608 | |
| 7 | PCB Holder | AEC1088 | 25 | Wire Saddle | AEC1745 | |
| 8 | PCB Spacer | AEC1991 | | | | |
| 9 | Gasket C-M | ANK1737 | 26 | 11P Housing Wire (J111) | See Contrast table (2) | |
| 10 | Locking Card Spacer | AEC1429 | 27 | Flat Clamp | AEC1879 | |
| | | | 28 | Screw | AMZ30P060FZK | |
| 11 | Ground Finger | ANG2468 | 29 | Screw | PMB30P060FNI | В |
| 12 | Clamp | AEC1884 | 30 | Screw | VBB30P080FNI | |
| 13 | Wire Saddle | AEC1989 | | | | |
| 14 | Mini Clamp | AEC1971 | 31 | Pin Grommet | AEC1015 | |
| 15 | Double Locking Spacer | AEC1988 | 32 | Video Stay | ANG2607 | |
| | | | 33 | Gasket M-T 150 | ANK1738 | |
| 16 | 15P/16P Housing Wire (J106) | ADX3028 | 34 | Shield Sheet | AEC2004 | |
| 17 | Cable Clamp | AEC1707 | | | | |
| 18 | 10/11P Housing Wire (J110) | See Contrast table (2) | | | | |

(2) CONTRAST TABLE PDP-5004/KUC, PDP-4304/KUC and PDP-4314/KUC are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-5004/ KUC | PDP-5014/ KUC | PDP-4304/ KUC | PDP-4314/ KUC |
|------|-----|----------------------------|------------------|------------------|------------------|------------------|
| | 4 | AV I/O Assy | AWZ6967 | AWZ6971 | AWZ6967 | AWZ6971 |
| | 18 | 10/11P Housing Wire (J110) | ADX2890 | ADX2890 | ADX2912 | ADX2912 |
| | 26 | 11P Housing Wire (J111) | ADX2891 | ADX2891 | ADX2913 | ADX2913 |

37

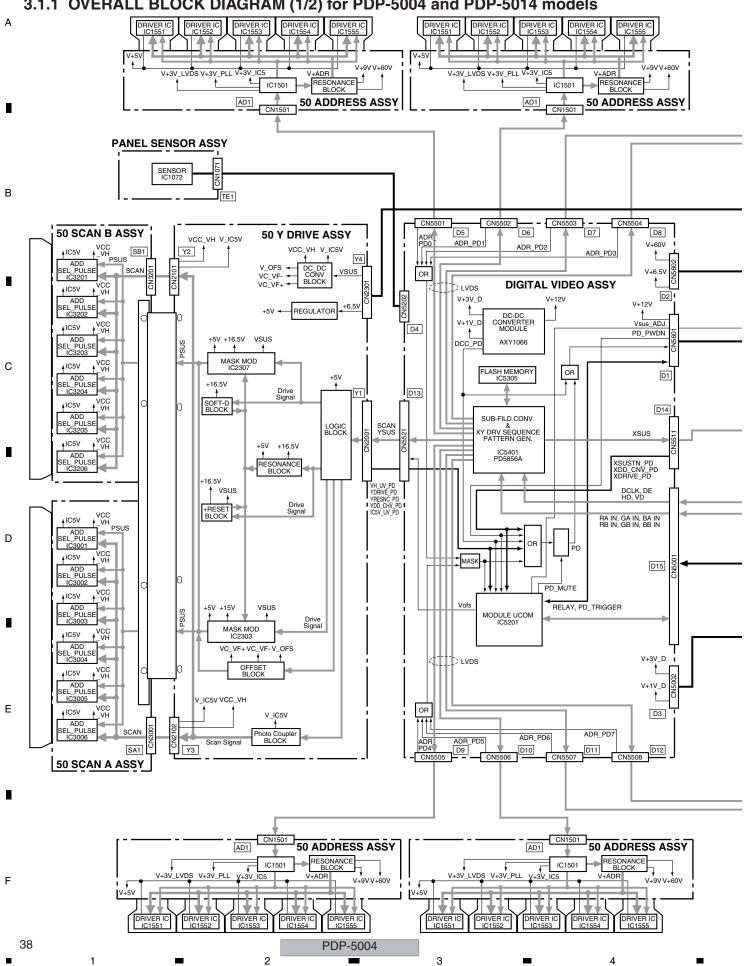
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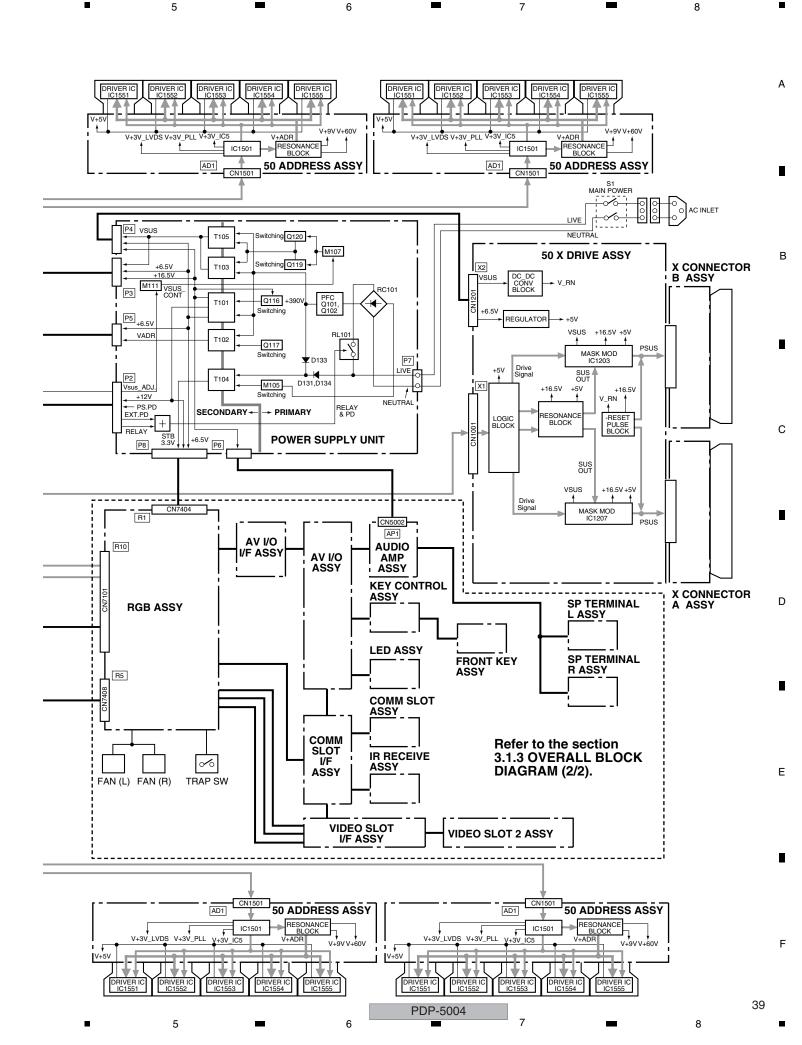
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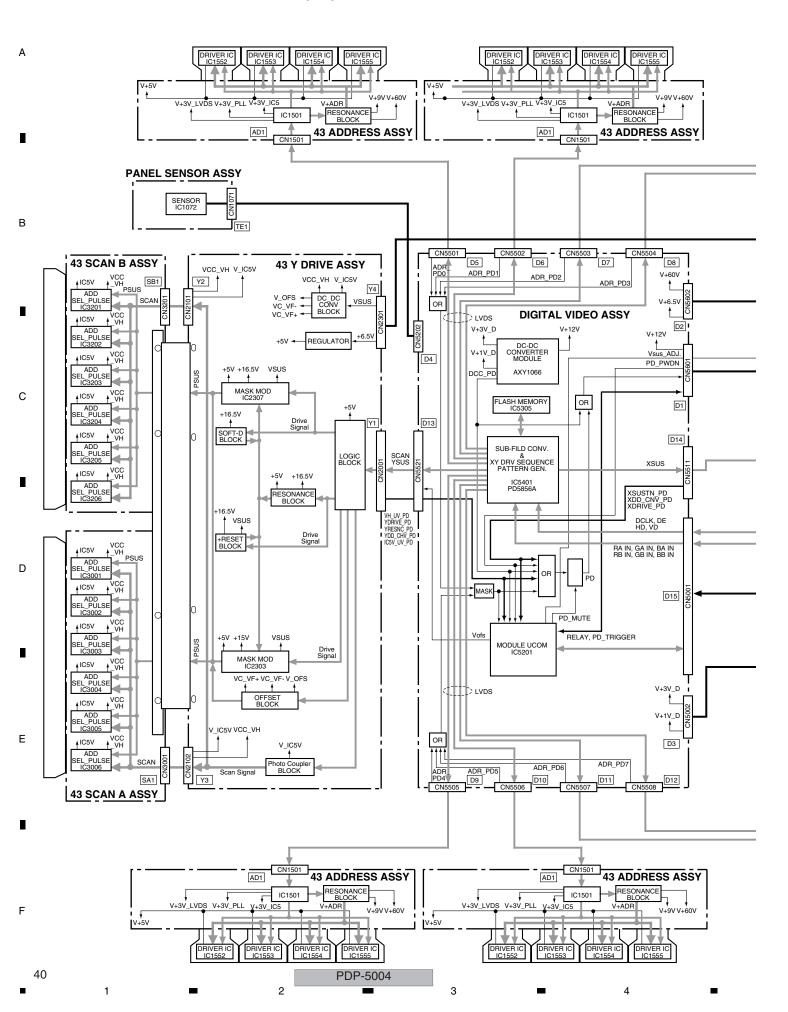
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

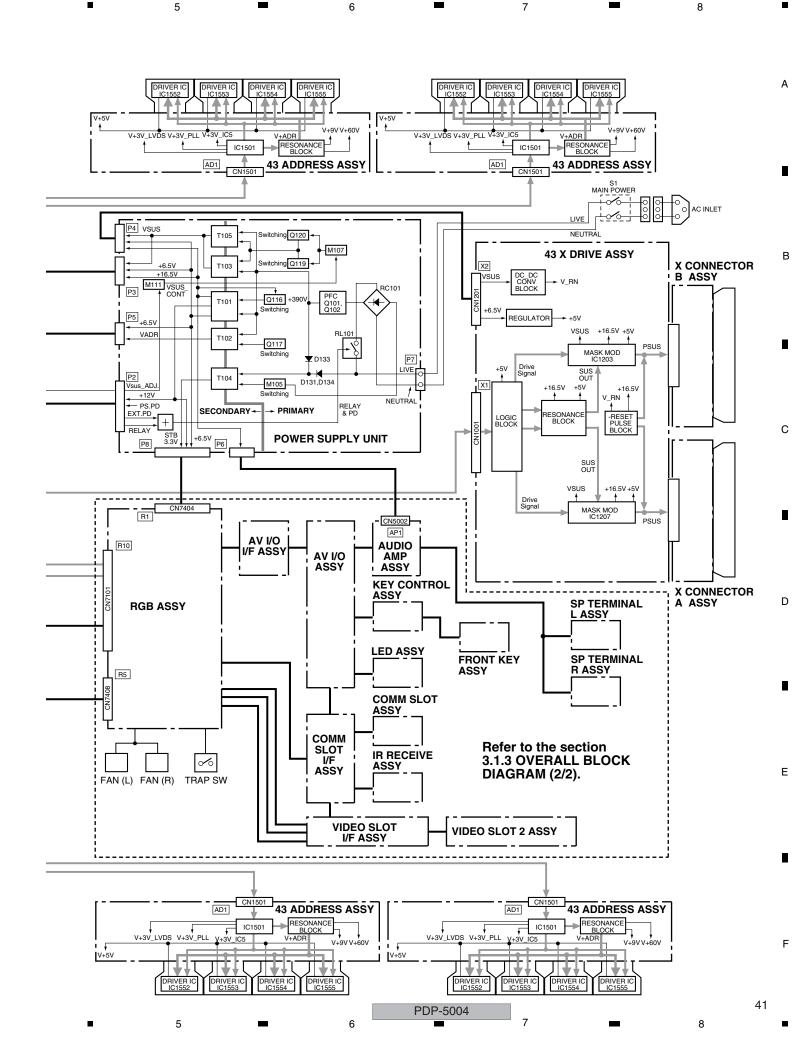
3.1 BLOCK DIAGRAM

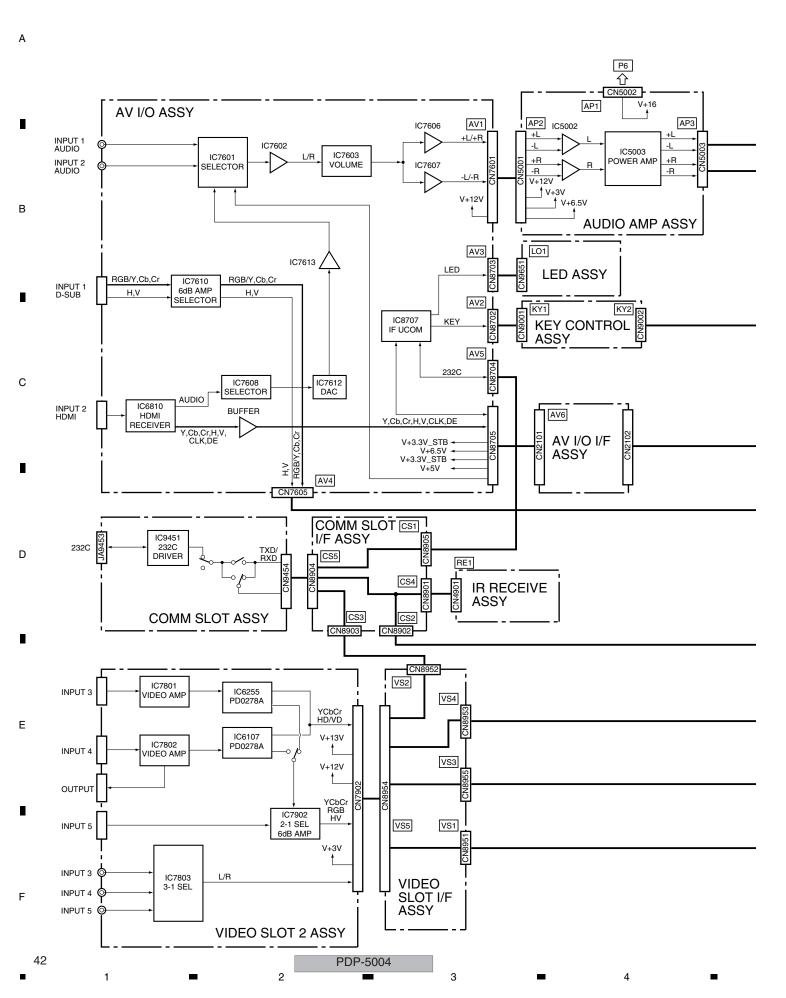
3.1.1 OVERALL BLOCK DIAGRAM (1/2) for PDP-5004 and PDP-5014 models



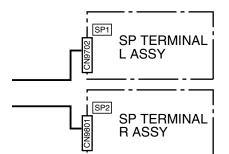


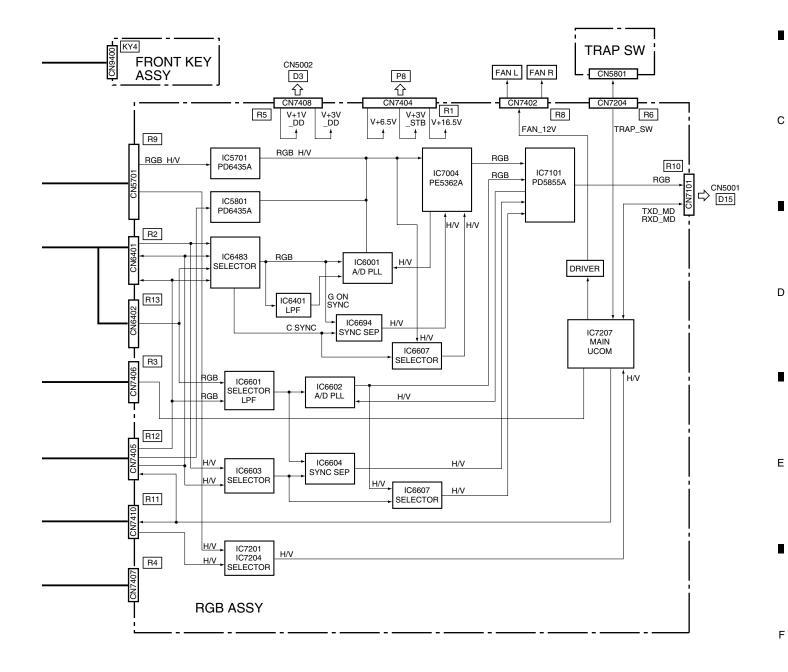












В

PDP-5004

5

Α

В

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2

3

4

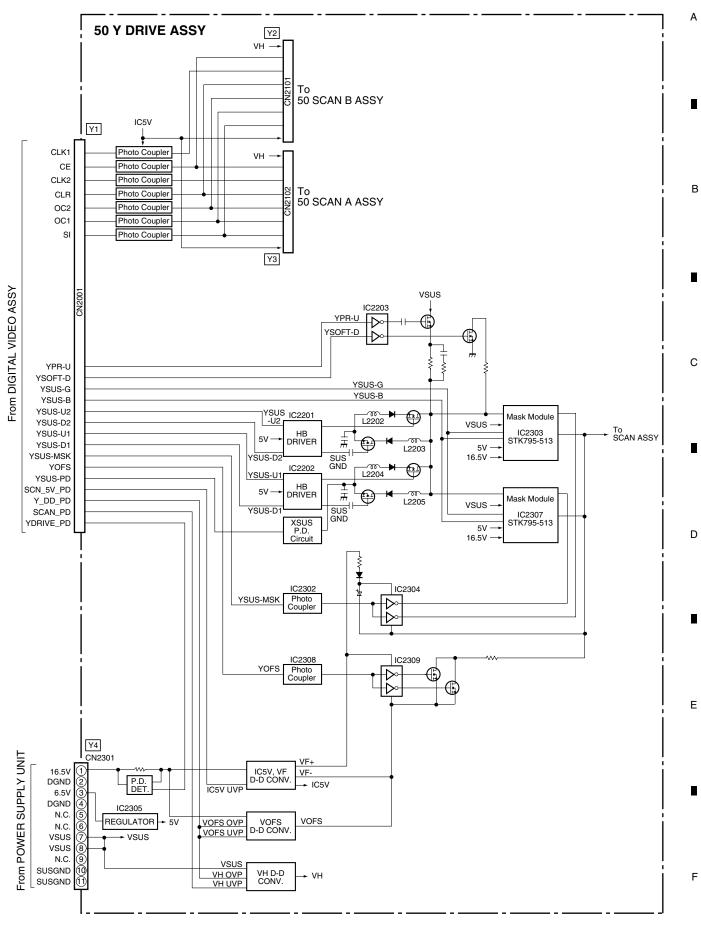
2

3

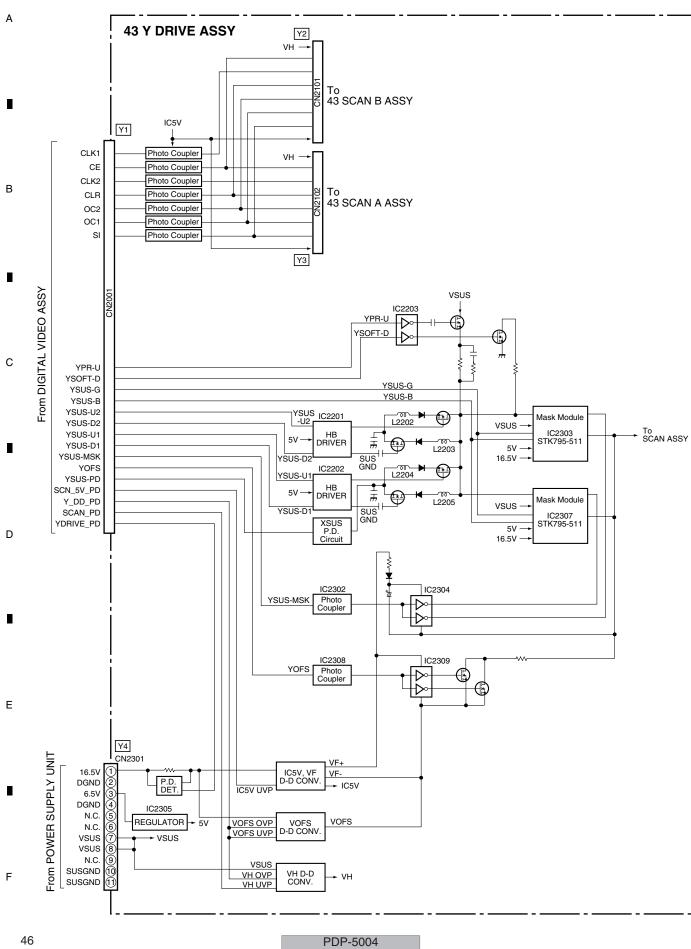
4

E

F



PDP-5004



С

В

D

E

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47

PDP-5004

5

7

X1

X2 CN1201

> P.D. DET.

> > IC1205

REGULATOR

16.5V

DGND

6.5V DGND

N.C.

N.C. VSUS

VSUS

N.C.

SUSGND

SUSGND N.C.

XSUS-G

XSUS-B XSUS-U2

XSUS-D2 XSUS-U1

XSUS-D1

XSUS-MSK

XCP-MSK

XNR-D XSUS_PD

XDD_PD

XDRV_PD

2

43 X DRIVE ASSY

XSUS-G

______ L1102

_____ L1104

SUS GND

SUS GND

VCP

1

(1)

______ L1105

> XNR P.D. DET.

XSUS IC1101

5V ·

XSUS-D2

XSUS-U1

XSUS-D1

XSUS-MSK

XNR-D

VRN OVP P.D.

VRN UVP P.D.

vsus

D-D CONV. T1401

HB DRIVER

IC1102

HB DRIVER

XSUS P.D. Circuit

Charge Pump Circuit

Photo Coupler

IC1204

VRN-220V

3

VSUS

16.5V

vsus

5V -16.5V - Mask Module

IC1203 STK795-510

Mask Module

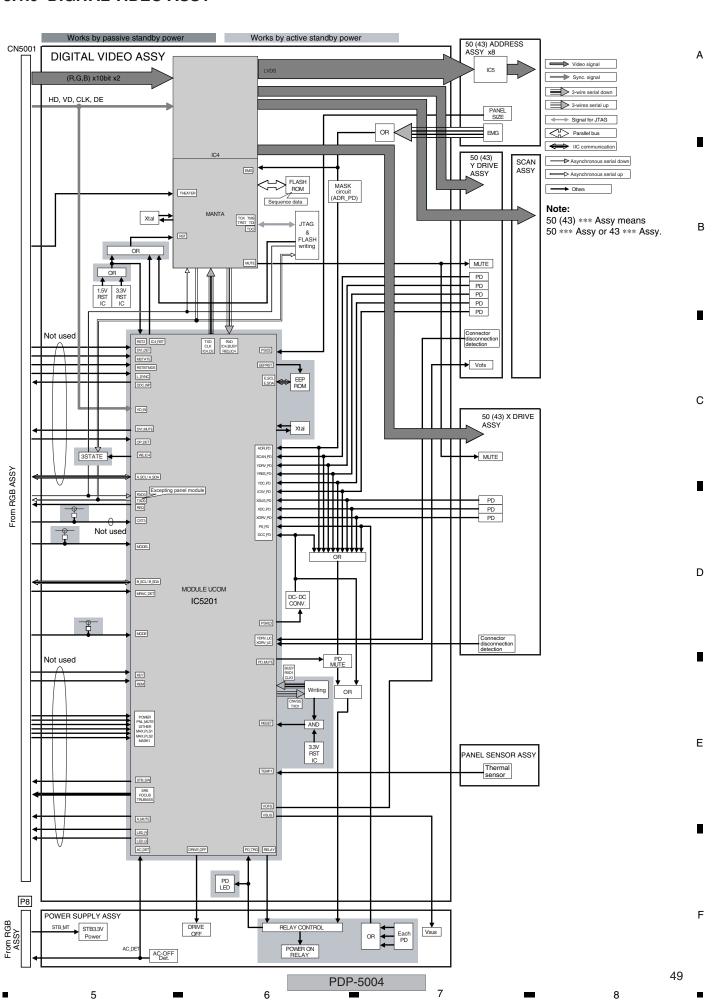
IC1207 STK795-510 To X CONNECTOR ASSY

PSUS

From POWER SUPPLY UNIT

48

PDP-5004



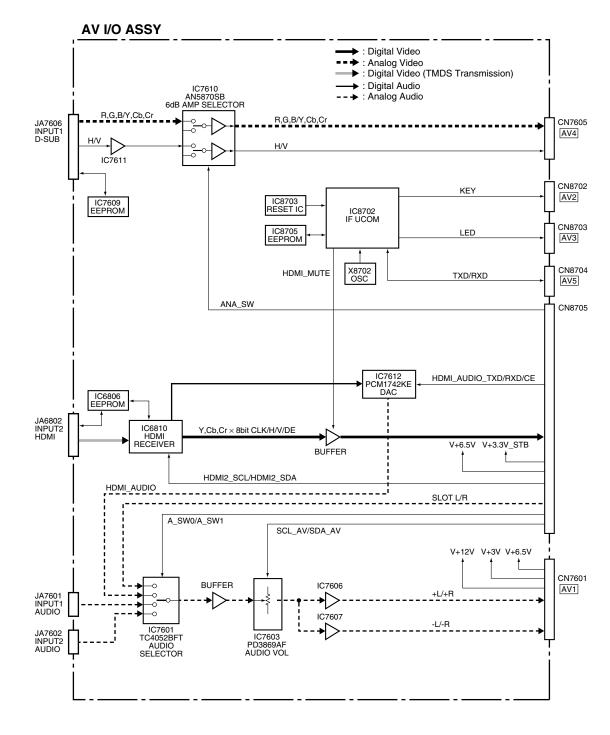
Α

В

С

D

Ε



F

50

PDP-5004

7

8

В

С

D

Ε

51

F

PDP-5004

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6

3.1.12 AUDIO AMP and COMM SLOT ASSYS

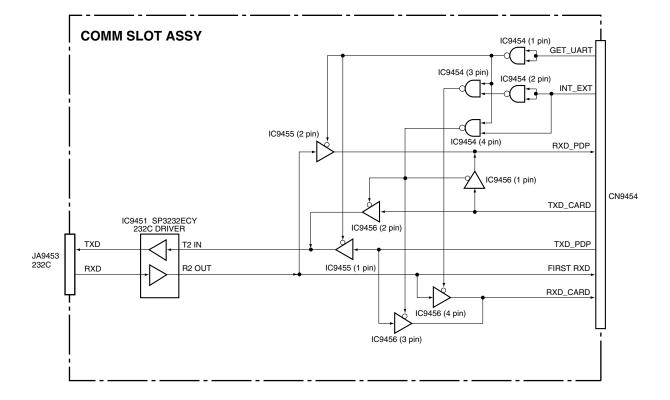
Α

В

D

Ε

AUDIO AMP ASSY AP3 AP2 IC5003 LA4625 POWER AMP CN5003 $\mathsf{BAL} \to \mathsf{UNBAL}$ CN5001 L_OUT + L_OUT -R_OUT + R_OUT -V+3.3V STBY AMUTE DC DETECT A_NG ТЕМР3 TEMP3 V+12V IC5001 SI-8120S AP1 V+16.5 CN5002 V+12V_D V+6.5V DD CONVERTER V+3.3V # V+12V REG.

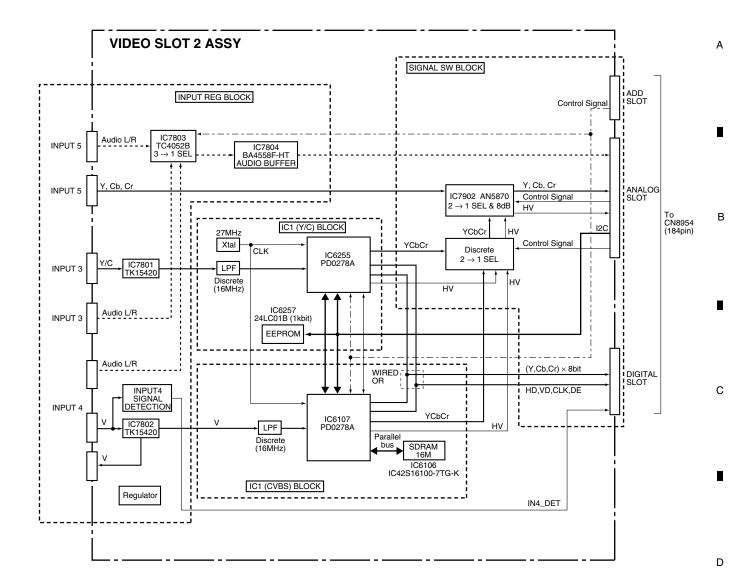


52

PDP-5004

2

3



Ε

PDP-5004

Α

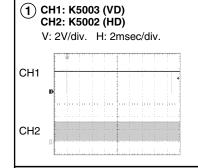
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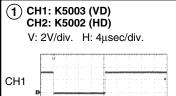
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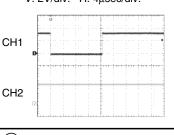
D

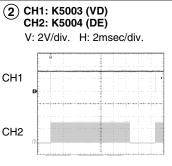
Е

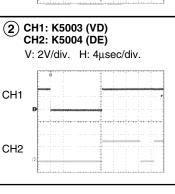
DIGITAL VIDEO ASSY (4/6) • DIGITAL I/F BLOCK

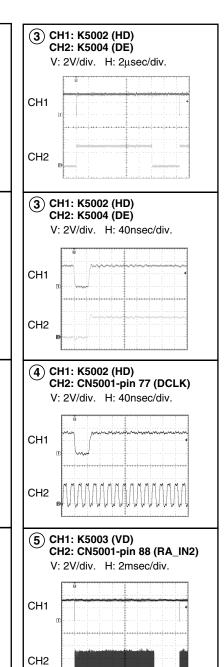










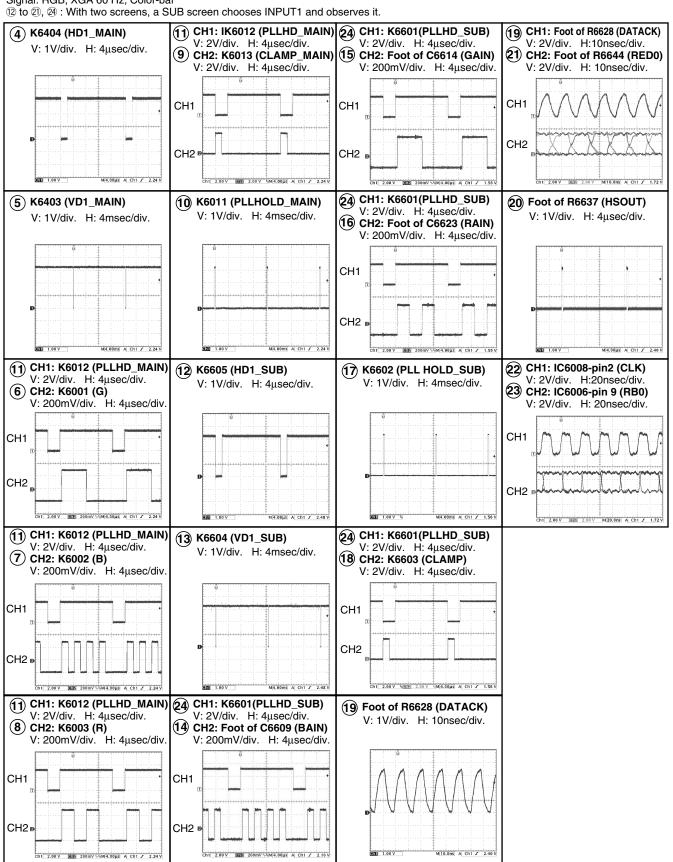


2

RGB ASSY (2/10, 3/10, 4/10) MAUN AD BLOCK, MAIN LPF BLOCK, SUS LPF&AD BLOCK

Input: INPUT 1

Signal: RGB, XGA 60 Hz, Color-bar



55

Ε

В

VIDEO SLOT 2 ASSY (1/4)

• IC1(CVBS) BLOCK

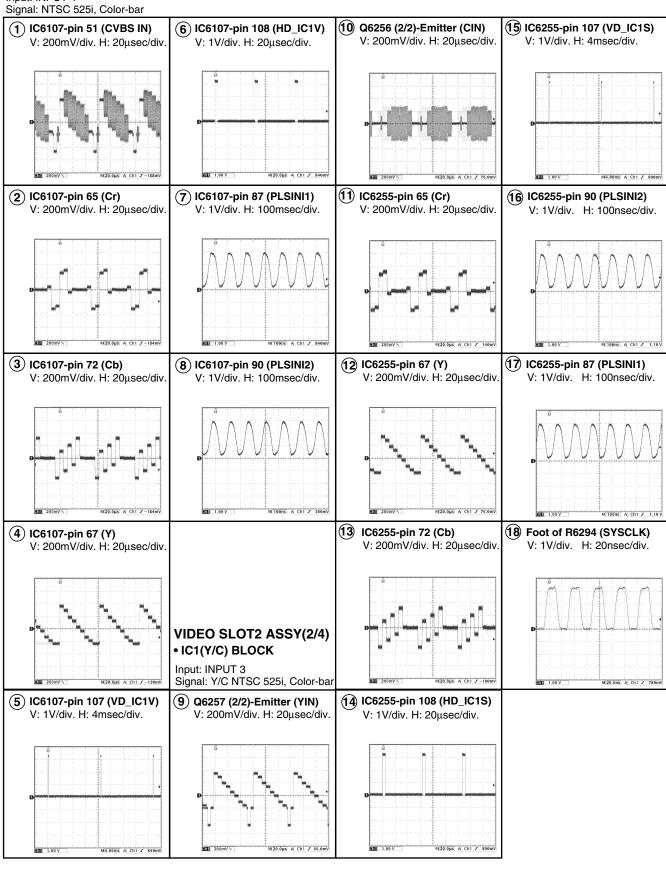
Input: INPUT 4

В

С

D

Ε



56

PDP-5004

AV I/O ASSY (1/3) AV I/O ASSY (1/3) AV I/O BLOCK AV I/O BLOCK • AUDIO VIDEO Input: INPUT 1 Input: INPUT 1 **VIDEO SLOT2 ASSY (4/4)** Signal: 200mVrms, 1 kHz input, Signal: RGB, XGA 60 Hz, Color-bar • SIGNAL SW BLOCK **VOL MAX** 1 CH1: CN7605-pin 10(HD_IO) (6) CH1: JA7606-pin 13 (HD) (19) (-) side of C7908 (G/Y) (11) IC7601-pin 12 (L-AUDIO) V: 2V/div. H: 5µsec/div. V: 2V/div. H: 5µsec/div. V: 200mV/div. H: 20µsec/div. V: 200mV/div. H: 500µsec/div. 2) CH2: CN7605-pin 16 (R_IO) (8) CH2: JA7606-pin 2 (G) V: 500mV/div. H: 5µsec/div. V: 500mV/div. H: 5µsec/div. CH₁ CH₁ CH2 CH₂ В 1 CH1: CN7605-pin 10(HD_IO) (6) CH1: JA7606-pin 13 (HD) 20 (-) side of C7912 (B/Cb) 12) IC7603-pin 14 (L-AUDIO) V: 2V/div. H: 5µsec/div.

9 CH2: JA7606-pin 3 (B) V: 2V/div. H: 5µsec/div. V: 200mV/div. H: 20µsec/div. V: 200mV/div. H: 500usec/div. (3) CH2: CN7605-pin 14 (G_IO) V: 500mV/div. H: 5usec/div. V: 500mV/div. H: 5µsec/div. CH1 CH1 CH2 С 1 CH1: CN7605-pin 10(HD_IO) (13) CH1: CN7601-pin 14 (+L_OUT) (R/Cr) (21) (21) (21) (21) 10 JA7606-pin 14 (VD) V: 2V/div. H: 5µsec/div. V: 200mV/div. H: 500µsec/div V: 200mV/div. H: 20µsec/div. V: 2V/div. H: 5msec/div. (14) CH2: CN7601-pin 13 (-L_OUT) (4) CH2: CN7605-pin 12 (B_IO) V: 500mV/div. H: 5µsec/div. V: 200mV/div. H: 500usec/div CH1 CH₂ CH2 D (5) CN7605-pin 9 (VD_IO) V: 2V/div. H: 5msec/div. AUDIO AMP ASSY AUDIO Input: INPUT 1 Ε Signal: 200mVrms, 1 kHz input, **VOL MAX** (6) CH1: JA7606-pin 13 (HD) CH1: CN5003-pin 9 (L-) 1 IC5003-pin 1 (L-AUDIO) V: 2V/div. H: 500µsèc/div. V: 2V/div. H: 5µsec/div. V: 50mV/div. H: 500μsec/div (3) CH2: CN5003-pin 8 (L+) (7) CH2: JA7606-pin 1 (R) V: 2V/div. H: 500µsec/div. V: 500mV/div. H: 5µsec/div. CH1 CH₁ CH₂ CH2 F

PDP-5004

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57

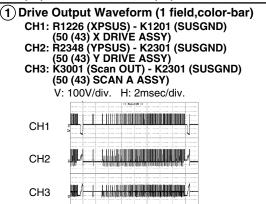
50 (43) X DRIVE ASSY, 50 (43) Y DRIVE ASSY and 50 (43) SCAN A ASSY

CH7

CH3

CH4

• 50 (43) X SUS BLOCK, 50 (43) Y LOGIC BLOCK, 50 (43) Y SUS BLOCK

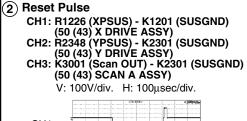


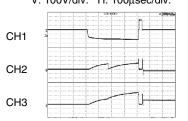
(5) Control Signal (Sustain Waveform Gen.) CH2: K2016 (YSUS-G) - K2010 (DGND)
CH3: K2025 (YSUS-U1) - K2010 (DGND)
CH4: K2022 (YSUS-U2) - K2010 (DGND)
CH5: K2026 (YSUS-B) - K2010 (DGND)
CH6: K2024 (YSUS-D2) - K2010 (DGND)
CH7: K2027 (YSUS-D1) - K2010 (DGND)
(50 (43) Y DRIVE ASSY) V: 1V/div. H: 500nsec/div. CH2 СНЗ CH4 CH₅ CH6

(6) Scan Control Signal (1 field, color-bar)

3

50 (43) *** Assy means 50 *** Assy or 43 *** Assy.





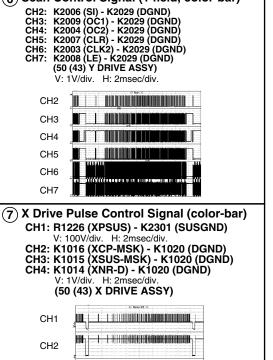
(3) Sustain Pulse (1 sub-sub-field)

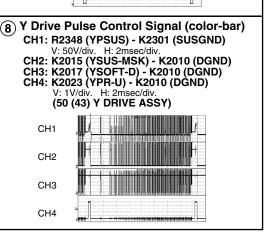
(50 (43) SCAN A ASSY)

V: 50V/div. H: 5µsec/div.

CH1: R1226 (XPSUS) - K1201 (SUSGND) (50 (43) X DRIVE ASSY) CH2: R2348 (YPSUS) - K2301 (SUSGND) (50 (43) Y DRIVE ASSY) CH3: K3001 (Scan OUT) - K2301 (SUSGND)

4) Sustain Waveform CH1: R2348 (YPSUS) - K2301 (SUSGND) (50 (43) Y DRIVE ASSY) V: 50V/div. H: 500nsec/div. CH₁





F

В

D

Ε

CH₁

CH₂

CH3

50 (43) ADDRESS ASSY

5

• ADR RESONANCE BLOCK (VIDEO)

CH1: IC1601-pin 2 (ADR_B2) (3) CH1: Q1601-pin 4 (ADR_B2) 5) CH1: Q1601 Drain (V+ADR) CH2: IC1603-pin 4 (ADR_U1) CH2: Q1603-pin 4 (ADR_U1) CH2: Q1603 Source CH3: IC1603-pin 2 (ADR_D1) CH3: Q1603-pin 2 (ADR_D1) CH3: Q1602 Source V: 1V/div. V: 10V/div. V: 10V/div. (Input: VIDEO, Signal: Color-bar) (Input: VIDEO, Signal: Color-bar) (Input: VIDEO, Signal: Color-bar) CH1 CH1 CH2 CH2 CH2 2msec/div. . .. 1μsec/div. 2msec/div. СНЗ CH3 CH3 CH1 CH1 CH1 CH₂ CH₂ H: CH₂ 1μsec/div. 1μsec/div. 1μsec/div. СНЗ СНЗ СНЗ (2) CH1: IC1601-pin 2 (ADR_B2) CH1: Q1601-pin 4 (ADR_B2) CH1: Q1601 Drain (V+ADR) CH2: Q1602-pin 4 (ADR_U2) CH2: Q1603 Source CH2: IC1602-pin 4 (ADR_U2) CH3: IC1602-pin 2 (ADR_D2) CH3: Q1602-pin 2 (ADR_D2) CH3: Q1602 Source V: 1V/div. V: 10V/div. V: 10V/div. (Input: VIDEO, Signal: Color-bar) (Input: VIDEO, Signal: Color-bar) (Input: VIDEO, Signal: B/W(1×8)) CH1 CH1 CH2 CH2 CH2 2msec/div. 1usec/div. 2msec/div. СНЗ СНЗ СНЗ CH1 CH1 CH1 CH2 CH2 CH2 1μsec/div. 1μsec/div. 1μsec/div. СНЗ СНЗ СНЗ

Note:

50 (43) *** Assy means 50 *** Assy or 43 *** Assy.

В

С

D

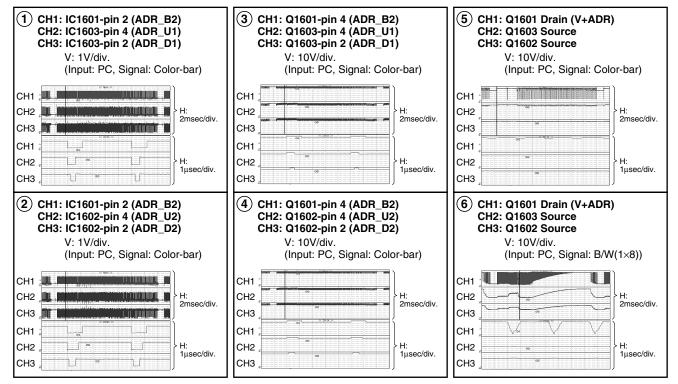
Ε

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50 (43) ADDRESS ASSY

5

• ADR RESONANCE BLOCK (PC)



59

50 ADDRESS ASSY ADR LOGIC BLOCK

Α

В

СНЗ

CH1: IC1553-pin 18 (CLK input) CH2: IC1553-pin 16 (LE input) CH3: IC1553-pin 9 (DATA input) V: 1V/div. (Input: VIDEO, Signal: Color-bar) CH1 CH2 . The second of the second 2msec/div. MWWWW.__MWWWWWWWWWWWWWWW.__MWWW CH1 H: 200nsec/div. CH2 снз ∦7/7/

CH1: IC1553-pin 23 (HBLK input) CH2: IC1553-pin 19 (LBLK input) CH3: IC1553-pin 25 (HZ input) V: 1V/div. (Input: VIDEO, Signal: Color-bar) CH1 CH2 H: 2msec/div. H: 50μsec/div. 96 CH2

43 ADDRESS ASSY ADR LOGIC BLOCK

3

CH1: IC1552-pin 18 (CLK input) CH2: IC1552-pin 16 (LE input) CH3: IC1552-pin 9 (DATA input) V: 1V/div. (Input: VIDEO, Signal: Color-bar) CH1 CH2 2msec/div. WANDAN WARANAMANAMANAMANA MANAMA CH1 H: 200nsec/div. CH1: IC1552-pin 23 (HBLK input) CH2: IC1552-pin 19 (LBLK input) CH3: IC1552-pin 25 (HZ input) V: 1V/div. (Input: VIDEO, Signal: Color-bar) CH1; CH2 2msec/div. CH1 CH2 ... 50μsec/div. СНЗ

60

Ε

■ 5 3.3 VOLTAGES

• Voltages

CN5601 (D1)

| No. | Signal Name | I/O | Signal Description | Voltages at NTSC Signal Input |
|-----|-------------|-----|--|-------------------------------|
| 1 | +12V | I | +12V power input | +12VDC |
| 2 | +12V | ı | +12V power input | +12VDC |
| 3 | GND_D | _ | GND | |
| 4 | GND_D | _ | GND | |
| 5 | PD | 0 | Power down signal | 0VDC |
| 6 | VSUS_ADJ | 0 | VSUS adjustment signal | |
| 7 | PS_PD | I | Power-down detecting signal of POWER SUPPLY block | OVDC |
| 8 | RELAY | 0 | Relay control signal | +3.3VDC |
| 9 | DRF | 0 | Drive control signal | OVDC |
| 10 | AC_DET | I | Primary side power (AC) state output at panel side | +3.0VDC |
| 11 | PD_TRIGGER | I | Power down trigger | +3.3VDC |

CN5602 (D2)

| No. | Signal Name | I/O | Signal Description | Voltages at NTSC Signal Input |
|-----|-------------|-----|----------------------------------|-------------------------------|
| 1 | VADR | - 1 | Address drive power (+61V) input | +61VDC |
| 2 | VADR | ı | Address drive power (+61V) input | +61VDC |
| 3 | N.C | | Not connected | |
| 4 | GND_ADR | _ | GND | |
| 5 | GND_ADR | _ | GND | |
| 6 | +6.5V | I | +6.5V power input | +6.8VDC |
| 7 | GND_D | _ | GND | |

61

В

С

D

Ε

PDP-5004

_

Α

В

POWER SUPPLY ASSY

2

| _ | | | | |
|-----|-------------|---------|----------|-----|
| | R1 (CN7404) | Voltage | P8 | |
| No. | Name | (V) | Name | No. |
| 1 | V+16.5V | 16.7 | V+16.5V | 1 |
| 2 | GND | 0 | GND | 2 |
| 3 | V+12V | 12.9 | V+12V | 3 |
| 4 | V+12V | 12.9 | V+12V | 4 |
| 5 | GND | 0 | GND | 5 |
| 6 | GND | 0 | GND | 6 |
| 7 | V+6.5V | 6.8 | V+6.5V | 7 |
| 8 | V+6.5V | 6.8 | V+6.5V | 8 |
| 9 | GND | 0 | GND | 9 |
| 10 | GND | 0 | GND | 10 |
| 11 | V+3V_STB | 3.3 | V+3V_STB | 11 |
| 12 | GND | 0 | GND | 12 |
| 13 | AC_DET | 2.7 | AC_DET | 13 |

RGB ASSY

| | $/ \cap$ | | |
|--|----------|--|--|
| | | | |
| | | | |

| | R2 (CN6401) | Voltage | AV4 (CN8705) | |
|-----|--------------|---------|--------------|-----|
| No. | Name | (V) | Name | No. |
| 1 | VD_SLOT | 0 | VD_SLOT | 1 |
| 2 | HD_SLOT | 0 | HD_SLOT | 2 |
| 3 | GNDD | 0 | GNDD | 3 |
| 4 | B_SLOT | 0 | B_SLOT | 4 |
| 5 | GNDD | 0 | GNDD | 5 |
| 6 | G_SLOT | 0 | G_SLOT | 6 |
| 7 | GNDD | 0 | GNDD | 7 |
| 8 | R_ SLOT | 0 | R_ SLOT | 8 |
| 9 | VD_IO | 0 | VD_IO | 9 |
| 10 | HD_ IO | 5 | HD_ IO | 10 |
| | R13 (CN6402) | | | |
| 1 | GNDD | 0 | GNDD | 11 |
| 2 | B_ IO | 0 | B_ IO | 12 |
| 3 | GNDD | 0 | GNDD | 13 |
| 4 | G_ IO | 0 | G_ IO | 14 |
| 5 | GNDD | 0 | GNDD | 15 |
| 6 | R_IO | 0 | R_IO | 16 |

RGB ASSY

COMM SLOT I/F ASSY

| R3 (CN7406) | | Voltage | CS2 (CN8902) | |
|-------------|-------------|---------|--------------|-----|
| No. | Name | (V) | Name | No. |
| 1 | V+5V_STB | 5.1 | V+5V_STB | 1 |
| 2 | GND | 0 | GND | 2 |
| 3 | V+3V_STB | 3.3 | V+3V_STB | 3 |
| 4 | CYOBI1 | 3.3 | CYOBI1 | 4 |
| 5 | CYOBI2 | 0 | CYOBI2 | 5 |
| 6 | CYOBI3 | 0 | CYOBI3 | 6 |
| 7 | GND | 0 | GND | 7 |
| 8 | SR_OUT | 4.9 | SR_OUT | 8 |
| 9 | SLOT_ST_COM | 3.3 | SLOT_ST_COM | 9 |
| 10 | V+6V | 6.8 | V+6V | 10 |
| 11 | NC | | | |

RGB ASSY

VIDEO SLOT I/F ASSY

| R4 (CN7407) | | Voltage | VS1 (CN8951) | |
|-------------|----------|---------|--------------|-----|
| No. | Name | (V) | | No. |
| 1 | GND | 0 | GND | 1 |
| 2 | GND | 0 | GND | 2 |
| 3 | V+13V | 13.6 | V+13V | 3 |
| 4 | V+13V | 13.6 | V+13V | 4 |
| 5 | V+12V | 12.9 | V+12V | 5 |
| 6 | V+12V | 12.9 | V+12V | 6 |
| 7 | GND | 0 | GND | 7 |
| 8 | V+3V_STB | 3.3 | V+3V_STB | 8 |
| 9 | GND | 0 | GND | 9 |
| 10 | V+3V_DD | 3.3 | V+3V_DD | 10 |
| 11 | V+3V_DD | 3.3 | V+3V_DD | 11 |
| 12 | GND | 0 | GND | 12 |

RGB ASSY

DIGITAL VIDEO ASSY

| | R5 (CN7408) | Voltage | D3 (CN5002) | |
|-----|-------------|---------|-------------|-----|
| No. | Name | (V) | Name | No. |
| 1 | V+1V_DD | 1.4 | V+1V_DD | 1 |
| 2 | V+1V_DD | 1.4 | V+1V_DD | 2 |
| 3 | V+1V_DD | 1.4 | V+1V_DD | 3 |
| 4 | GND | 0 | GND | 4 |
| 5 | GND | 0 | GND | 5 |
| 6 | GND | 0 | GND | 6 |
| 7 | V+3V_DD | 3.3 | V+3V_DD | 7 |
| 8 | V+3V_DD | 3.3 | V+3V_DD | 8 |
| 9 | GND | 0 | GND | 9 |
| 10 | GND | 0 | GND | 10 |
| 11 | NC | | | |
| 12 | NC | | | |

RGB ASSY

FAN (L), (R)

| | | | | ,. , |
|-----|-------------|---------|---------|------|
| | R8 (CN7402) | Voltage | FAN (L) | |
| No. | Name | (V) | Name | No. |
| 1 | FAN_12V | 0 | FAN_12V | 1 |
| 2 | FAN_NG | 3.2 | FAN_NG | 2 |
| 3 | GND | 0 | GND | 3 |
| | | | FAN (R) | |
| 4 | FAN_12V | 0 | FAN_12V | 1 |
| 5 | FAN_NG | 3.2 | FAN_NG | 2 |
| 6 | GND | 0 | GND | 3 |
| 7 | NC | | | |

RGB ASSY

TRAP SW (ASG1089)

| | R6 (CN7204) | Voltage | TRAP SW (CN5801) | |
|-----|-------------|---------|------------------|-----|
| No. | Name | (V) | Name | No. |
| 1 | TRAP_SW | 3.3 | TRAP_SW | 1 |
| 2 | NC | 0 | NC | 2 |
| 3 | 3.3V | 3.3 | 3.3V | 3 |

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| RGI | B ASSY | | | |
|-----|----------------------|---------|----------------|-----|
| | R9 (CN5701) | | | |
| No. | Name | | | |
| ΑV | I/O IF ASSY | | AV I/O AS | SY |
| | CN2102, AV6 (CN2101) | Voltage | CN8705 | |
| No. | Name | (V) | Name | No. |
| 1 | N.C. | 0 | N.C. | 101 |
| 2 | N.C. | 0 | N.C. | 102 |
| 3 | A_R_SLOT | 6 | A_R_SLOT | 103 |
| 4 | GND | 0 | GND | 104 |
| 5 | A_L_SLOT | 6 | A_L_SLOT | 105 |
| 6 | GND | 0 | GND | 106 |
| 7 | V+12V | 12.9 | V+12V | 107 |
| 8 | GND | 0 | GND | 107 |
| 9 | 1N1_HD | 4.4 | 1N1_HD | |
| | | 1 | | 109 |
| 10 | 1N1_VD | 0 | 1N1_VD | 110 |
| 11 | WE_ROM_B | 0 | WE_ROM_B | 111 |
| 12 | KEY | 3.3 | KEY | 112 |
| 13 | IO_YOBI2 | 3.2 | IO_YOBI2 | 113 |
| 14 | SR_OUT | 5 | SR_OUT | 114 |
| 15 | RXD_IF | 3.3 | RXD_IF | 115 |
| 16 | CLK_IF | 3.3 | CLK_IF | 116 |
| 17 | RXD_WR | 3.3 | RXD_WR | 117 |
| 18 | REQ_IF | 0 | REQ_IF | 118 |
| 19 | RST_IF | 0 | RST_IF | 119 |
| 20 | IF_CE | 3.2 | IF_CE | 120 |
| 21 | HOT_P1 | 0 | HOT_P1 | 121 |
| 22 | HDMI2_SDA | 0 | HDMI2_SDA | 122 |
| 23 | HDMI_INT1 | 3.2 | HDMI_INT1 | 123 |
| 24 | SCL_AV | 3.3 | SCL_AV | 124 |
| 25 | HDMI_AUDIO_CLK | 3.2 | HDMI_AUDIO_CLK | 125 |
| 26 | D_AUDIO_SEL | 3.3 | D_AUDIO_SEL | 126 |
| 27 | CEC2 | 0 | CEC2 | 127 |
| 28 | GND | 0 | GND | 128 |
| 29 | HD_DVI | 0 | HD_DVI | 129 |
| 30 | DE_DVI | 0 | DE_DVI | 130 |
| 31 | GND | 0 | GND | 131 |
| 32 | RB_DVI7 | 0/3.3 | RB_DVI7 | 132 |
| 33 | RB_DVI6 | 0/3.3 | RB_DVI6 | 133 |
| 34 | RB_DVI4 | 0/3.3 | RB_DVI4 | 134 |
| 35 | RB_DVI2 | 0/3.3 | RB_DVI2 | 135 |
| 36 | RB_DVI0 | 0/3.3 | RB_DVI0 | 136 |
| 37 | GB_DVI6 | 0/3.3 | GB_DVI6 | 137 |
| 38 | GB_DVI4 | 0/3.3 | GB_DVI4 | 138 |
| 39 | GB_DVI2 | 0/3.3 | GB_DVI2 | 139 |
| 40 | GB_DVI0 | 0/3.3 | GB_DVI0 | 140 |
| 41 | BB_DVI6 | 0/3.3 | BB_DVI6 | 141 |
| 42 | BB_DVI4 | 0/3.3 | BB_DVI4 | 142 |
| 43 | BB_DVI2 | 0/3.3 | BB_DVI2 | 143 |
| 44 | BB_DVI0 | 0/3.3 | BB_DVI0 | 144 |
| 45 | RA_DVI7 | 0/3.3 | RA_DVI7 | 145 |
| 46 | RA_DVI5 | 0/3.3 | RA_DVI5 | 146 |
| 47 | RA_DVI3 | 0/3.3 | RA_DVI3 | 147 |
| 48 | RA_DVI1 | 0/3.3 | RA_DVI1 | 148 |
| 49 | GND | 0 | GND | 149 |
| 52 | GA_DVI7 | 0/3.3 | GA_DVI7 | 152 |
| 53 | GA_DVI5 | 0/3.3 | GA_DVI5 | 153 |
| 54 | GA_DVI3 | 0/3.3 | GA_DVI3 | 154 |
| 55 | GA_DVI1 | 0/3.3 | GA_DVI1 | 155 |
| 56 | BA_DVI7 | 0/3.3 | BA_DVI7 | 156 |
| | 5, _5 vii | 0,0.0 | 5,7_5 411 | .50 |

RGB ASSY

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| No | R9 (CN5701) | | | | |
|-----|----------------------|---------|-----------------|-----|--|
| No. | Name | + | | | |
| AV | I/O IF ASSY | | AV I/O ASS | | |
| | CN2102, AV6 (CN2101) | Voltage | CN8705 | _ | |
| No. | Name | (V) | Name | N | |
| 57 | BA_DVI5 | 0/3.3 | BA_DVI5 | 1 | |
| 58 | BA_DVI3 | 0/3.3 | BA_DVI3 | 1 | |
| 59 | GND | 0 | GND | 1 | |
| 60 | V+5V_A2 | 5 | V+5V_A2 | 1 | |
| 61 | N.C. | 0 | N.C. | 1 | |
| 62 | N.C. | 0 | N.C. | 1 | |
| 101 | N.C. | 0 | N.C. | + | |
| 102 | N.C. | 0 | N.C. | + | |
| 103 | A_MUTE | 0 | A_MUTE | + | |
| 104 | TEMP3 | 0 - 3.3 | TEMP3 | + | |
| 105 | V+6V | 6.8 | V+6V | + | |
| 106 | GND | 0 | GND | + | |
| 107 | V+3V_A1 | 3.3 | V+3V_A1 | + | |
| 108 | GND | 0 | GND | + | |
| 109 | V+3V_UCOM | 3.3 | V+3V_UCOM | + | |
| 110 | GND V+3VSTB | 3.3 | GND | + | |
| 111 | | 0 | V+3VSTB | + | |
| 113 | IO_YOBI1 PN2 | 0 | IO_YOBI1 PN2 | + | |
| 114 | ACTIVE | 3.2 | ACTIVE | + | |
| 115 | TXD_IF | 3.3 | TXD_IF | + | |
| 116 | TXD_IF | 3.3 | TXD_WR | + | |
| 117 | AC_DET | 2.6 | AC_DET | + | |
| 118 | IF_BUSY | 0 | IF_BUSY | + | |
| 119 | RESET | 3.3 | RESET | + | |
| 120 | HDMI_AUDIO_CE | 3.3 | HDMI_AUDIO_CE | + | |
| 121 | HOT_P2 | 3.3 | HOT_P2 | + | |
| 122 | HDMI2_SCL | 3.3 | HDMI2_SCL | + | |
| 123 | SDA AV | 3.2 | SDA_AV | | |
| 124 | HDMI_INT2 | 3.2 | HDMI INT2 | 1 | |
| 125 | HDMI_AUDIO_TXD | 3.3 | HDMI_AUDIO_TXD | +: | |
| 126 | CEC1 | 0 | CEC1 | +: | |
| 127 | RESETX1 | 3.3 | RESETX1 | 1 | |
| 128 | VD_DVI | 0 | VD_DVI | 1 | |
| 129 | GND | 0 | GND | 1 | |
| 130 | CLK_DVI | 0 | CLK_DVI | 1 | |
| 131 | GND | 0 | GND | ; | |
| 132 | GND | 0 | GND | ; | |
| 133 | RB_DVI5 | 0/3.3 | RB_DVI5 | ; | |
| 134 | RB_DVI3 | 0/3.3 | RB_DVI3 | ; | |
| 135 | RB_DVI1 | 0/3.3 | RB_DVI1 | ; | |
| 136 | GB_DVI7 | 0/3.3 | GB_DVI7 | - ; | |
| 137 | GB_DVI5 | 0/3.3 | GB_DVI5 | ; | |
| 138 | GB_DVI3 | 0/3.3 | GB_DVI3 | ; | |
| 139 | GB_DVI1 | 0/3.3 | GB_DVI1 | ; | |
| 140 | GND | 0 | GND | 4 | |
| 141 | BB_DVI6 | 0/3.3 | BB_DVI6 | 4 | |
| 142 | BB_DVI4 | 0/3.3 | BB_DVI4 | 4 | |
| 143 | BB_DVI2 | 0/3.3 | BB_DVI2 | 4 | |
| 144 | BB_DVI0 | 0/3.3 | BB_DVI0 | 4 | |
| 145 | RA_DVI6 | 0/3.3 | RA_DVI6 | 4 | |
| 146 | RA_DVI4 | 0/3.3 | RA_DVI4 | 4 | |
| 147 | RA_DVI2 | 0/3.3 | RA_DVI2 | 4 | |
| 148 | RA_DVI0 | 0/3.3 | RA_DVI0 | - | |

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R9 (CN5701) No. Name AV I/O IF ASSY AV I/O ASSY CN2102, AV6 (CN2101) CN8705 Voltage (V) No. No. Name Name 49 149 GND 0 GND 52 152 GA_DVI6 0/3.3 GA_DVI6 53 153 GA_DVI4 0/3.3 GA_DVI4 54 154 GA_DVI2 0/3.3 GA_DVI2 155 GA_DVI0 0/3.3 GA_DVI0 55 156 BA_DVI6 0/3.3 BA_DVI6 56 57 157 BA_DVI4 0/3.3 BA_DVI4 58 158 BA_DVI2 0/3.3 BA_DVI2 159 BA_DVI1 0/3.3 BA_DVI1 59 160 BA_DVI0 0/3.3 BA_DVI0 60 161 NC 0 NC 61

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RGB ASSY

NC

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VIDEO SLOT I/F ASSY

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NC

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| R11 (CN7410) | | Voltage | VS3 (CN8955) | | | |
|--------------|------------|---------|--------------|-----|--|--|
| No. | Name | (V) | Name | No. | | |
| 1 | GND | 0 | GND | 1 | | |
| 2 | KEY | 3.3 | KEY | 2 | | |
| 3 | EMGREQ1_V | 0 | EMGREQ1_V | 3 | | |
| 4 | EMGREQ2_V | 0 | EMGREQ2_V | 4 | | |
| 5 | IC1V_OE | 3.3 | IC1V_OE | 5 | | |
| 6 | RESETX1 | 3.3 | RESETX1 | 6 | | |
| 7 | GND | 0 | GND | 7 | | |
| 8 | SD_SEL | 3.3 | SD_SEL | 8 | | |
| 9 | FNC2 | 0 | FNC2 | 9 | | |
| 10 | FNC3 | 0 | FNC3 | 10 | | |
| 11 | SOUND1 | 3.3 | SOUND1 | 11 | | |
| 12 | GND | 0 | GND | 12 | | |
| 13 | DSUBR | 3.8 | DSUBR | 13 | | |
| 14 | GND | 0 | GND | 14 | | |
| 15 | DSUBG | 3.8 | DSUBG | 15 | | |
| 16 | GND | 0 | GND | 16 | | |
| 17 | DSUBB | 3.8 | DSUBB | 17 | | |
| 18 | GND | 0 | GND | 18 | | |
| 19 | GND | 0 | GND | 19 | | |
| 20 | IN5_HD | 0 | IN5_HD | 20 | | |
| 21 | GND | 0 | GND | 21 | | |
| 22 | SOUSA_X | 3.3 | SOUSA_X | 22 | | |
| 23 | VYOBI1 | 0 | VYOBI1 | 23 | | |
| 24 | VYOBI2 | 0 | VYOBI2 | 24 | | |
| 25 | DSUBSW_DET | 3.3 | DSUBSW_DET | 25 | | |
| 26 | GND | 0 | GND | 26 | | |
| 27 | GND | 0 | GND | 27 | | |
| 28 | GND | 0 | GND | 28 | | |
| 29 | EMGREQ1_S | 0 | EMGREQ1_S | 29 | | |
| 30 | EMGREQ2_S | 0 | EMGREQ2_S | 30 | | |
| 31 | IC1S_OE | 0 | IC1S_OE | 31 | | |
| 32 | SLOT_ST3 | 0.4 | SLOT_ST3 | 32 | | |
| 33 | M_CHOICE | 0 | M_CHOICE | 33 | | |
| 34 | SOUND2 | 0 | SOUND2 | 34 | | |
| 35 | GND | 0 | GND | 35 | | |
| 36 | GND | 0 | GND | 36 | | |
| 37 | DSUBH | 5 | DSUBH | 37 | | |

RGB ASSY

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VIDEO SLOT I/F ASSY

| | R11 (CN7410) | Voltage | VS3 (CN8955) | |
|-----|--------------|---------|--------------|-----|
| No. | Name | (V) | Name | No. |
| 38 | GND | 0 | GND | 38 |
| 39 | GND | 0 | GND | 39 |
| 40 | DSUBV | 0 | DSUBV | 40 |
| 41 | GND | 0 | GND | 41 |
| 42 | GND | 0 | GND | 42 |
| 43 | IN5_VD | 3.3 | IN5_VD | 43 |
| 44 | GND | 0 | GND | 44 |
| 45 | GND | 0 | GND | 45 |
| 46 | HYOUJI_X | 0 | HYOUJI_X | 46 |
| 47 | VYOBI4 | 0 | VYOBI4 | 47 |
| 48 | VYOBI5 | 0 | VYOBI5 | 48 |
| 49 | VYOBI6 | 0 | VYOBI6 | 49 |
| 50 | WE_ROM_B | 0 | WE_ROM_B | 50 |

RGB ASSY

VIDEO SLOT I/F ASSY

| RGB ASSY R12 (CN7405) | | | VIDEO SLOT I/F VS4 (CN8953) | |
|--------------------------|--------------|-------------|-----------------------------|----|
| No. | Name | Voltage (V) | Name | No |
| | | | | + |
| 1 | GND | 0 | GND | 1 |
| 2 | GND | 0 | GND | 2 |
| 3 | G_SLOT | 0 | G_SLOT | 3 |
| 4 | GND | 0 | GND | 4 |
| 5 | B_SLOT | 0 | B_SLOT | 5 |
| 6 | GND | 0 | GND | 6 |
| 7 | R_SLOT | 0 | R_SLOT | 7 |
| 8 | GND | 0 | GND | 8 |
| 9 | HD_SLOT | 0 | HD_SLOT | 9 |
| 10 | GND | 0 | GND | 10 |
| 11 | VD_SLOT | 0 | VD_SLOT | 11 |
| 12 | GND | 0 | GND | 12 |
| 13 | AUDIO_L_SLOT | 6 | AUDIO_L_SLOT | 13 |
| 14 | GND | 0 | GND | 14 |
| 15 | AUDIO_R_SLOT | 6 | AUDIO_R_SLOT | 15 |
| 16 | GND | 0 | GND | 16 |
| 17 | SLOT_ST1 | 0 | SLOT_ST1 | 17 |
| 18 | S_DIN_SEL | 0 | S_DIN_SEL | 18 |
| 19 | FNC_1 | 0 | FNC_1 | 19 |
| 20 | FNC_0 | 5 | FNC_0 | 20 |
| 21 | NC | 0 | NC | 21 |
| 22 | NC | 0 | NC | 22 |
| 23 | VD_DET | 0 | VD_DET | 23 |
| 24 | GND | 0 | GND | 24 |
| 25 | HD_DET | 0 | HD_DET | 25 |
| 26 | GND | 0 | GND | 26 |
| 27 | VD_IC1 | 3.2 | VD_IC1 | 27 |
| 28 | GND | 0 | GND | 28 |
| 29 | HD_IC1 | 3 | HD_IC1 | 29 |
| 30 | GND | 0 | GND | 30 |
| 31 | GND | 0 | GND | 31 |
| 32 | RB0_IC1 | 0/3.3 | RB0_IC1 | 32 |
| 33 | RB1_IC1 | 0/3.3 | RB1_IC1 | 33 |
| 34 | RB2_IC1 | 0/3.3 | RB2_IC1 | 34 |
| 35 | RB3 IC1 | 0/3.3 | RB3_IC1 | 35 |
| 36 | RB4_IC1 | 0/3.3 | RB4_IC1 | 36 |
| 37 | RB5_IC1 | 0/3.3 | RB5_IC1 | 37 |

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VIDEO SLOT I/F ASSY

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| | R12 (CN7405) | Voltage | VS4 (CN8953) | |
|-----|-----------------|---------|--------------------|-----|
| No. | Name | (V) | Name | No. |
| 38 | RB6_IC1 | 0/3.3 | RB6_IC1 | 38 |
| 39 | RB7_IC1 | 0/3.3 | RB7_IC1 | 39 |
| 40 | GND | 0 | GND | 40 |
| 41 | GND | 0 | GND | 41 |
| 42 | GB0_IC1 | 0/3.3 | GB0_IC1 | 42 |
| 43 | GB1_IC1 | 0/3.3 | GB1_IC1 | 43 |
| 44 | GB2_IC1 | 0/3.3 | GB2_IC1 | 44 |
| 45 | GB3_IC1 | 0/3.3 | GB3_IC1 | 45 |
| 46 | GB4_IC1 | 0/3.3 | GB4_IC1 | 46 |
| 47 | GB5_IC1 | 0/3.3 | GB5_IC1 | 47 |
| 48 | GB6_IC1 | 0/3.3 | GB6_IC1 | 48 |
| 49 | GB7_IC1 | 0/3.3 | GB7_IC1 | 49 |
| 50 | GND | 0 | GND | 50 |
| 51 | GND | 0 | GND | 51 |
| 52 | BB0_IC1 | 0/3.3 | BB0_IC1 | 52 |
| 53 | BB0_IC1 | 0/3.3 | BB1_IC1 | 53 |
| 54 | | | | 54 |
| | BB2_IC1 BB3_IC1 | 0/3.3 | BB2_IC1 BB3_IC1 | |
| 55 | | | | 55 |
| 56 | BB4_IC1 | 0/3.3 | BB4_IC1 | 56 |
| 57 | BB5_IC1 | 0/3.3 | BB5_IC1 | 57 |
| 58 | BB6_IC1 | 0/3.3 | BB6_IC1 | 58 |
| 59 | BB7_IC1 | 0/3.3 | BB7_IC1 | 59 |
| 60 | GND | 0 | GND | 60 |
| 61 | GND | 0 | GND | 61 |
| 62 | GND | 0 | GND | 62 |
| 63 | SCL_VS | 3.1 | SCL_VS | 63 |
| 64 | GND | 0 | GND | 64 |
| 65 | SDA_VS | 3.1 | SDA_VS | 65 |
| 66 | GND | 0 | GND | 66 |
| 67 | GND | 0 | GND | 67 |
| 68 | GND | 0 | GND | 68 |
| 69 | NC | 0 | NC | 69 |
| 70 | GND | 0 | GND | 70 |
| 71 | NC | 0 | NC | 71 |
| 72 | GND | 0 | GND | 72 |
| 73 | NC | 0 | NC | 73 |
| 74 | GND | 0 | GND | 74 |
| 75 | NC | 0 | NC | 75 |
| 76 | NC | 0 | NC | 76 |
| 77 | IN4_DET | 5 | IN4_DET | 77 |
| 78 | IN3_DET | 0 | IN3_DET | 78 |
| 79 | SLOT_ST2 | 3 | SLOT_ST2 | 79 |
| 80 | SR_VS | 5.1 | SR_VS | 80 |
| 81 | NC | 0 | NC | 81 |
| 82 | 3G4G | 3.3 | 3G4G | 82 |
| 83 | GND | 0 | GND | 83 |
| 84 | GND | 0 | GND | 84 |
| 85 | IN5_DET | 0 | IN5_DET | 85 |
| 86 | GND | 0 | GND | 86 |
| 87 | DE_IC1 | 2.5 | DE_IC1 | 87 |
| 88 | GND | 0 | GND | 88 |
| 89 | CK_IC1 | 1.5 | CK_IC1 | 89 |
| 90 | GND | 0 | GND | 90 |
| 91 | GND | 0 | GND | 91 |
| 92 | BA7_IC1 | 0/3.3 | BA7_IC1 | 92 |
| 93 | BA6_IC1 | 0/3.3 | BA6_IC1 | 93 |
| 94 | BA5_IC1 | 0/3.3 | BA5_IC1 | 94 |

RGB ASSY

VIDEO SLOT I/F ASSY

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| | R12 (CN7405) | Voltage | VS4 (CN8953) | |
|-----|--------------|---------|--------------|-----|
| No. | Name | (V) | Name | No. |
| 95 | BA4_IC1 | 0/3.3 | BA4_IC1 | 95 |
| 96 | BA3_IC1 | 0/3.3 | BA3_IC1 | 96 |
| 97 | BA2_IC1 | 0/3.3 | BA2_IC1 | 97 |
| 98 | BA1_IC1 | 0/3.3 | BA1_IC1 | 98 |
| 99 | BA0_IC1 | 0/3.3 | BA0_IC1 | 99 |
| 100 | GND | 0 | GND | 100 |
| 101 | GND | 0 | GND | 101 |
| 102 | GA7_IC1 | 0/3.3 | GA7_IC1 | 102 |
| 103 | GA6_IC1 | 0/3.3 | GA6_IC1 | 103 |
| 104 | GA5_IC1 | 0/3.3 | GA5_IC1 | 104 |
| 105 | GA4_IC1 | 0/3.3 | GA4_IC1 | 105 |
| 106 | GA3_IC1 | 0/3.3 | GA3_IC1 | 106 |
| 107 | GA2_IC1 | 0/3.3 | GA2_IC1 | 107 |
| 108 | GA1_IC1 | 0/3.3 | GA1_IC1 | 108 |
| 109 | GA0_IC1 | 0/3.3 | GA0_IC1 | 109 |
| 110 | GND | 0 | GND | 110 |
| 111 | GND | 0 | GND | 111 |
| 112 | RA7_IC1 | 0/3.3 | RA7_IC1 | 112 |
| 113 | RA6_IC1 | 0/3.3 | RA6_IC1 | 113 |
| 114 | RA5_IC1 | 0/3.3 | RA5_IC1 | 114 |
| 115 | RA4_IC1 | 0/3.3 | RA4_IC1 | 115 |
| 116 | RA3_IC1 | 0/3.3 | RA3_IC1 | 116 |
| 117 | RA2_IC1 | 0/3.3 | RA2_IC1 | 117 |
| 118 | RA1_IC1 | 0/3.3 | RA1_IC1 | 118 |
| 119 | RA0_IC1 | 0/3.3 | RA0_IC1 | 119 |
| 120 | GND | 0 | GND | 120 |
| 121 | GND | 0 | GND | 121 |
| 122 | GND | 0 | GND | 122 |

AV I/O ASSY

AUDIO AMP ASSY

| | | | 710210711111 71001 | | |
|-----|--------------|---------|--------------------|-----|--|
| | AV1 (CN7601) | Voltage | AP2 (CN5001) | | |
| No. | Name | (V) | Name | No. | |
| 1 | A_NG | 3.2 | A_NG | 15 | |
| 2 | TEMP3 | 0-3.3 | TEMP3 | 14 | |
| 3 | A_MUTE | 0 | A_MUTE | 13 | |
| 4 | ST_BY | 2.5 | ST_BY | 12 | |
| 5 | GND | 0 | GND | 11 | |
| 6 | V+6V | 6.8 | V+6V | 10 | |
| 7 | V+3V | 3.3 | V+3V | 9 | |
| 8 | V+12A | 12 | V+12A | 8 | |
| 9 | GND | 0 | GND | 7 | |
| 10 | -R_OUT | 6 | -R_OUT | 6 | |
| 11 | +R_OUT | 6 | +R_OUT | 5 | |
| 12 | GND | 0 | GND | 4 | |
| 13 | -L_OUT | 6 | -L_OUT | 3 | |
| 14 | +L_OUT | 6 | +L_OUT | 2 | |
| 15 | GND | 0 | GND | 1 | |

AV I/O ASSY

KEY CONTROL ASSY

| | AV2 (CN8702) | Voltage | KY1 (CN9001) | |
|-----|--------------|----------------|--------------|-----|
| No. | Name | Voltage (V) | Name | No. |
| 1 | GND | 0 | GND | 1 |
| 2 | KEY | 3.3 | KEY | 2 |
| 3 | V+3VSTB | 3.3 | V+3VSTB | 3 |

AV I/O ASSY

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LED ASSY

| | ,, 0, 1,001 | | | ٠. |
|-----|--------------|---------|--------------|-----|
| | AV3 (CN8703) | Voltage | KY1 (CN9651) | |
| No. | Name | (V) | Name | No. |
| 1 | V+3STB | 3.3 | V+3STB | 1 |
| 2 | LED_ G | 0 | LED_ G | 2 |
| 3 | LED_ R | 3.3 | LED_R | 3 |
| 4 | GND | 0 | GND | 4 |
| 5 | AC_ DET | 2.6 | AC_ DET | 5 |

AV I/O ASSY

COMM SLOT I/F ASSY

| | AV5 (CN8704) | Voltage | KY1 (CN8905) | |
|-----|--------------|---------|--------------|-----|
| No. | Name | (V) | Name | No. |
| 1 | GND | 0 | GND | 1 |
| 2 | UART_SW | 3.3 | UART_SW | 2 |
| 3 | KEY | 3.3 | KEY | 3 |
| 4 | RXD | 3.3 | RXD | 4 |
| 5 | TXD | 3.3 | TXD | 5 |
| 6 | GND | 0 | GND | 6 |

AUDIO AMP ASSY

POWER SUPPLY ASSY

| | AP1 (CN5002) | Voltage | P6 | |
|-----|--------------|---------|--------|-----|
| No. | Name | (V) | Name | No. |
| 1 | V+16R5 | 16.7 | V+16R5 | 1 |
| 2 | V+16R5 | 16.7 | V+16R5 | 2 |
| 3 | GNDP | 0 | GNDP | 3 |
| 4 | GNDP | 0 | GNDP | 4 |
| 5 | GNDP | 0 | GNDP | 5 |
| 6 | GNDP | 0 | GNDP | 6 |

AUDIO AMP ASSY

SP TERMINAL R ASSY

| | AP3 (CN5003) | Voltage | SP2 (CN9801) | |
|-----|--------------|---------|-------------------|-----|
| No. | Name | (V) | Name | No. |
| 1 | GND | 0 | GND | 1 |
| 2 | R+ | 5.3 | R+ | 2 |
| 3 | R- | 5.2 | R- | 3 |
| | | | SP TERMINAL L ASS | Ϋ́ |
| | | | SP1 (CN9702) | |
| 4 | STBGND | 0 | STBGND | 1 |
| 5 | TEMP3 | 0-3.3 | TEMP3 | 2 |
| 6 | V+3VDD | 3.3 | V+3VDD | 3 |
| 7 | GND | 0 | GND | 4 |
| 8 | L+ | 5.3 | L+ | 5 |
| 9 | L- | 5.2 | L- | 6 |

COMM SLOT I/F ASSY

3

IR ASSY

| CS4 (CN8901) | | Voltage | RE1 (CN4901) | |
|--------------|--------|----------------|--------------|-----|
| No. | Name | Voltage (V) | Name | No. |
| 1 | V+3STB | 3.3 | V+3STB | 1 |
| 2 | GND | 0 | GND | 2 |
| 3 | SR | 0 | SR | 3 |
| 4 | GND | 0 | GND | 4 |

COMM SLOT I/F ASSY

COMM SLOT ASSY

| 1 NC 0 NC 2 IRSW 0 IRSW 3 IR_COMM_OUT 4.9 IR_COMM_IN 4 IR_COMM_IN 4.9 IR_COMM_IN 5 GND 0 GND 6 GND 0 GND 7 GND 0 GND 8 CYOBI3 0 CYOBI3 9 CYOBI2 0 CYOBI2 10 CSL_ST2 3.3 CSL_ST2 11 CSL_ST1 3.3 CSL_ST1 12 11 CSL_ST1 3.3 CSL_ST1 13 3 GSL_ST1 7 14 GND 0 GND 1 15 GND 0 GND 1 16 FIRST_RXD 3.3 FIRST_RXD 1 17 GET_UART 3.3 INT_EXT 1 18 INT_EXT 3.3 INT_EXT 1 18 <th colspan="5">COMM SLOT I/F ASSY COMM SLOT ASSY</th> | COMM SLOT I/F ASSY COMM SLOT ASSY | | | | |
|---|-----------------------------------|--------------|---------|-------------|-----|
| 1 | | CS5 (CN8904) | Voltage | CN9454 | |
| 2 | No. | Name | (V) | Name | No. |
| 3 | 1 | NC | 0 | NC | 1 |
| 4 IR_COMM_IN 4.9 IR_COMM_IN 5 GND 0 GND 6 GND 0 GND 7 GND 0 GND 8 CYOBI3 0 CYOBI3 9 CYOBI2 0 CYOBI2 10 CSL_ST2 3.3 CSL_ST2 11 CSL_ST1 3.3 CSL_ST1 12 3.3 CSL_ST1 3.3 14 GND 0 GND 3.3 15 GND 0 GND 3.3 16 FIRST_RXD 3.3 FIRST_RXD 3.3 17 GET_UART 3.3 GET_UART 3.3 18 INT_EXT 3.3 INT_EXT 3.3 19 RXD_CARD 0 RXD_CARD 3 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC3 2 22 GPC4 0 | 2 | IRSW | 0 | IRSW | 2 |
| 5 GND 0 GND 6 GND 0 GND 7 GND 0 GND 8 CYOBI3 0 CYOBI2 9 CYOBI2 0 CYOBI2 10 CSL_ST2 3.3 CSL_ST2 11 CSL_ST1 3.3 CSL_ST1 12 1 CSL_ST1 3.3 14 GND 0 GND 15 GND 0 GND 15 GND 0 GND 16 FIRST_RXD 3.3 FIRST_RXD 17 GET_UART 3.3 GET_UART 18 INT_EXT 3.3 INT_EXT 19 RXD_CARD 0 RXD_CARD 20 TXD_CARD 0 TXD_CARD 21 GPC5 0 GPC5 22 GPC4 0 GPC4 23 GPC3 0 GPC3 24 GPC2 | 3 | IR_COMM_OUT | 4.9 | IR_COMM_OUT | 3 |
| 6 GND 0 GND 0 GND 6 GND 6 GND 0 GND | 4 | IR_COMM_IN | 4.9 | IR_COMM_IN | 4 |
| 7 GND 0 GND 8 CYOBI3 0 CYOBI3 9 CYOBI2 0 CYOBI2 10 CSL_ST2 3.3 CSL_ST2 1 11 CSL_ST1 3.3 CSL_ST1 1 12 14 GND 0 GND 15 GND 0 GND 16 FIRST_RXD 3.3 FIRST_RXD 16 FIRST_RXD 3.3 FIRST_RXD 17 GET_UART 3.3 FIRST_RXD 18 INT_EXT 3.3 INT_EXT 19 RXD_CARD 0 RXD_CARD 20 TXD_CARD 0 TXD_CARD 21 GPC5 0 GPC5 22 GPC4 0 GPC3 23 GPC3 0 | 5 | GND | 0 | GND | 5 |
| 8 CYOBI3 0 CYOBI2 9 CYOBI2 0 CYOBI2 10 CSL_ST2 3.3 CSL_ST2 11 CSL_ST1 3.3 CSL_ST1 12 1 1 1 13 1 GND 0 GND 15 GND 0 GND 1 16 FIRST_RXD 3.3 FIRST_RXD 1 17 GET_UART 3.3 GET_UART 1 18 INT_EXT 3.3 INT_EXT 1 19 RXD_CARD 0 RXD_CARD 1 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC5 2 22 GPC4 0 GPC3 2 21 GPC5 0 GPC3 2 22 GPC4 0 GPC2 2 23 GPC3 0 GPC3 2 25< | 6 | GND | 0 | GND | 6 |
| 9 | 7 | GND | 0 | GND | 7 |
| 10 CSL_ST2 3.3 CSL_ST2 1 11 CSL_ST1 3.3 CSL_ST1 1 12 13 14 GND 0 GND 15 GND 0 GND 16 FIRST_RXD 3.3 FIRST_RXD 17 GET_UART 3.3 GET_UART 18 INT_EXT 3.3 INT_EXT 19 RXD_CARD 0 RXD_CARD 20 TXD_CARD 0 TXD_CARD 21 GPC5 0 GPC5 22 GPC4 0 GPC3 23 GPC3 0 GPC2 24 GPC2 0 GPC2 25 GPC1 0 GPC1 2 | 8 | CYOBI3 | 0 | CYOBI3 | 8 |
| 11 | 9 | CYOBI2 | 0 | CYOBI2 | 9 |
| 12 13 | 10 | CSL_ST2 | 3.3 | CSL_ST2 | 10 |
| 13 | 11 | CSL_ST1 | 3.3 | CSL_ST1 | 11 |
| 14 GND 0 GND 1 15 GND 0 GND 1 16 FIRST_RXD 3.3 FIRST_RXD 1 17 GET_UART 3.3 FIRST_RXD 1 18 INT_EXT 3.3 INT_EXT 1 18 INT_EXT 3.3 INT_EXT 1 19 RXD_CARD 0 RXD_CARD 1 20 TXD_CARD 0 RXD_CARD 2 21 GPC5 0 GPC5 2 21 GPC5 0 GPC4 2 22 GPC4 0 GPC3 2 24 GPC2 0 GPC3 2 25 GPC1 0 GPC1 2 25 GPC1 0 GPC2 2 25 GPC1 0 GPC2 2 25 GPC1 0 GPC2 2 25 GPC1 | 12 | | | | 12 |
| 15 GND 0 GND 1 16 FIRST_RXD 3.3 FIRST_RXD 1 17 GET_UART 3.3 FIRST_RXD 1 18 INT_EXT 3.3 INT_EXT 1 19 RXD_CARD 0 RXD_CARD 1 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC5 2 21 GPC5 0 GPC4 2 22 GPC4 0 GPC3 2 24 GPC2 0 GPC3 2 25 GPC1 0 GPC1 2 25 GPC1 0 GND 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP | 13 | | | | 13 |
| 16 FIRST_RXD 3.3 FIRST_RXD 1 17 GET_UART 3.3 GET_UART 1 18 INT_EXT 3.3 INT_EXT 1 19 RXD_CARD 0 RXD_CARD 1 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC5 2 22 GPC4 0 GPC4 2 23 GPC3 0 GPC3 2 24 GPC2 0 GPC2 2 25 GPC1 0 GPC1 2 25 GPC1 0 GND 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_CO | 14 | GND | 0 | GND | 14 |
| 17 GET_UART 3.3 GET_UART 1 18 INT_EXT 3.3 INT_EXT 1 19 RXD_CARD 0 RXD_CARD 1 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC5 2 22 GPC4 0 GPC4 2 23 GPC3 0 GPC3 2 24 GPC2 0 GPC1 2 25 GPC1 0 GPC1 2 25 GPC1 0 GND 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 UART_SW 1 109 GND </td <td>15</td> <td>GND</td> <td>0</td> <td>GND</td> <td>15</td> | 15 | GND | 0 | GND | 15 |
| 18 INT_EXT 3.3 INT_EXT 1 19 RXD_CARD 0 RXD_CARD 1 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC5 2 22 GPC4 0 GPC4 2 23 GPC3 0 GPC3 2 24 GPC2 0 GPC2 2 25 GPC1 0 GPC1 2 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 109 GND 0 GND 1 110 GND | 16 | FIRST_RXD | 3.3 | FIRST_RXD | 16 |
| 19 RXD_CARD 0 RXD_CARD 1 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC5 2 22 GPC4 0 GPC4 2 23 GPC3 0 GPC3 2 24 GPC2 0 GPC1 2 25 GPC1 0 GPC1 2 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND | 17 | GET_UART | 3.3 | GET_UART | 17 |
| 20 TXD_CARD 0 TXD_CARD 2 21 GPC5 0 GPC5 2 22 GPC4 0 GPC4 2 23 GPC3 0 GPC3 2 24 GPC2 0 GPC1 2 25 GPC1 0 GPC1 2 101 NC 0 MC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 | 18 | INT_EXT | 3.3 | INT_EXT | 18 |
| 21 GPC5 0 GPC5 2 22 GPC4 0 GPC4 2 23 GPC3 0 GPC3 2 24 GPC2 0 GPC2 2 25 GPC1 0 GPC1 2 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 <td>19</td> <td>RXD_CARD</td> <td>0</td> <td>RXD_CARD</td> <td>19</td> | 19 | RXD_CARD | 0 | RXD_CARD | 19 |
| 22 GPC4 0 GPC4 2 23 GPC3 0 GPC3 2 24 GPC2 0 GPC2 2 25 GPC1 0 GPC1 2 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 111 GND 0 GND 1 115 V+6.5V 6.8 | 20 | TXD_CARD | 0 | TXD_CARD | 20 |
| 23 GPC3 0 GPC3 2 24 GPC2 0 GPC2 2 25 GPC1 0 GPC1 2 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6 | 21 | GPC5 | 0 | GPC5 | 21 |
| 24 GPC2 0 GPC2 2 25 GPC1 0 GPC1 2 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND < | 22 | GPC4 | 0 | GPC4 | 22 |
| 25 GPC1 0 GPC1 2 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND <t< td=""><td>23</td><td>GPC3</td><td>0</td><td>GPC3</td><td>23</td></t<> | 23 | GPC3 | 0 | GPC3 | 23 |
| 101 NC 0 NC 1 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB | 24 | GPC2 | 0 | GPC2 | 24 |
| 102 GND 0 GND 1 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 120 NC | 25 | GPC1 | 0 | GPC1 | 25 |
| 103 GND 0 GND 1 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC | 101 | NC | 0 | NC | 101 |
| 104 GND 0 GND 1 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC | 102 | GND | 0 | GND | 102 |
| 105 TXD_PDP 3.3 TXD_PDP 1 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC </td <td>103</td> <td>GND</td> <td>0</td> <td>GND</td> <td>103</td> | 103 | GND | 0 | GND | 103 |
| 106 RXD_PDP 3.3 RXD_PDP 1 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB | 104 | GND | 0 | GND | 104 |
| 107 KEY_COMM_IN 3.3 KEY_COMM_IN 1 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 105 | TXD_PDP | 3.3 | TXD_PDP | 105 |
| 108 UART_SW 3.3 UART_SW 1 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 106 | RXD_PDP | 3.3 | RXD_PDP | 106 |
| 109 GND 0 GND 1 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 107 | KEY_COMM_IN | 3.3 | KEY_COMM_IN | 107 |
| 110 GND 0 GND 1 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 108 | UART_SW | 3.3 | UART_SW | 108 |
| 111 GND 0 GND 1 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 109 | GND | 0 | GND | 109 |
| 114 V+6.5V 6.8 V+6.5V 1 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 110 | GND | 0 | GND | 110 |
| 115 V+6.5V 6.8 V+6.5V 1 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 111 | GND | 0 | GND | 111 |
| 116 GND 0 GND 1 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 114 | V+6.5V | 6.8 | V+6.5V | 114 |
| 117 GND 0 GND 1 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 115 | V+6.5V | 6.8 | V+6.5V | 115 |
| 118 V+3VSTB 3.3 V+3VSTB 1 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 116 | GND | 0 | GND | 116 |
| 119 V+3VSTB 3.3 V+3VSTB 1 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 117 | GND | 0 | GND | 117 |
| 120 NC 0 NC 1 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 118 | V+3VSTB | 3.3 | V+3VSTB | 118 |
| 121 NC 0 NC 1 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 119 | V+3VSTB | 3.3 | V+3VSTB | 119 |
| 122 NC 0 NC 1 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 120 | NC | 0 | NC | 120 |
| 123 NC 0 NC 1 124 V+5VSTB 5 V+5VSTB 1 | 121 | NC | 0 | NC | 121 |
| 124 V+5VSTB 5 V+5VSTB 1 | 122 | NC | 0 | NC | 122 |
| | 123 | NC | 0 | NC | 123 |
| 10E V.EVCTD 5 V.EVCTD 4 | 124 | V+5VSTB | 5 | V+5VSTB | 124 |
| ן ארסין ז ארסעסוש ן 1 ארסעסוא ן 1 | 125 | V+5VSTB | 5 | V+5VSTB | 125 |

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PDP-5004

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COMM SLOT I/F ASSY VIDEO SLOT I/F ASSY

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| CS3 (CN8903) | | Voltage | VS2 (CN8952) | |
|--------------|-----------|---------|--------------|-----|
| No. | Name | (V) | Name | No. |
| 1 | GND | 0 | GND | 1 |
| 2 | FIRST_RXD | 3.3 | FIRST_RXD | 2 |
| 3 | GET_UART | 3.3 | GET_UART | 3 |
| 4 | INT_EXT | 3.3 | INT_EXT | 4 |
| 5 | RXD_GU | 0 | RXD_GU | 5 |
| 6 | TXD_GU | 0 | TXD_GU | 6 |
| 7 | GPC5 | 0 | GPC5 | 7 |
| 8 | GPC4 | 0 | GPC4 | 8 |
| 9 | GPC3 | 0 | GPC3 | 9 |
| 10 | GPC2 | 0 | GPC2 | 10 |
| 11 | GPC1 | 0 | GPC1 | 11 |

VIDEO SLOT I/E ASSY

VIDEO SLOT 2 ASSY

| VIDEO SLOT I/F ASSY VIDEO SLOT | | | | SSY |
|--------------------------------|--------------|---------|--------------|-----|
| | VS5 (CN8954) | Voltage | CNIZOGO | |
| No. | Name | (V) | Name | No. |
| 1 | GND | 0 | GND | 1 |
| 2 | GND | 0 | GND | 2 |
| 3 | G_SLOT | 0 | G_SLOT | 3 |
| 4 | GND | 0 | GND | 4 |
| 5 | B_SLOT | 0 | B_SLOT | 5 |
| 6 | GND | 0 | GND | 6 |
| 7 | R_SLOT | 0 | R_SLOT | 7 |
| 8 | GND | 0 | GND | 8 |
| 9 | HD_SLOT | 0 | HD_SLOT | 9 |
| 10 | GND | 0 | GND | 10 |
| 11 | VD_SLOT | 0 | VD_SLOT | 11 |
| 12 | GND | 0 | GND | 12 |
| 13 | AUDIO_L_SLOT | 6 | AUDIO_L_SLOT | 13 |
| 14 | GND | 0 | GND | 14 |
| 15 | AUDIO_R_SLOT | 6 | AUDIO_R_SLOT | 15 |
| 16 | GND | 0 | GND | 16 |
| 17 | SLOT_ST1 | 0 | SLOT_ST1 | 17 |
| 18 | S_DIN_SEL | 0 | S_DIN_SEL | 18 |
| 19 | FNC_1 | 0 | FNC_1 | 19 |
| 20 | FNC_0 | 5 | FNC_0 | 20 |
| 21 | V+3.3V | 3.2 | V+3.3V | 21 |
| 22 | V+3.3V | 3.2 | V+3.3V | 22 |
| 23 | VD_DET | 0 | VD_DET | 23 |
| 24 | GND | 0 | GND | 24 |
| 25 | HD_DET | 0 | HD_DET | 25 |
| 26 | GND | 0 | GND | 26 |
| 27 | VD | 0 | VD | 27 |
| 28 | GND | 0 | GND | 28 |
| 29 | HD | 0 | HD | 29 |
| 30 | GND | 0 | GND | 30 |
| 31 | GND | 0 | GND | 31 |
| 32 | RB0_IC1 | 0/3.3 | RB0_IC1 | 32 |
| 33 | RB1_IC1 | 0/3.3 | RB1_IC1 | 33 |
| 34 | RB2_IC1 | 0/3.3 | RB2_IC1 | 34 |
| 35 | RB3_IC1 | 0/3.3 | RB3_IC1 | 35 |
| 36 | RB4_IC1 | 0/3.3 | RB4_IC1 | 36 |
| 37 | RB5_IC1 | 0/3.3 | RB5_IC1 | 37 |
| 38 | RB6_IC1 | 0/3.3 | RB6_IC1 | 38 |
| 39 | RB7_IC1 | 0/3.3 | RB7_IC1 | 39 |
| 40 | GND | 0 | GND | 40 |
| 41 | GND | 0 | GND | 41 |
| 42 | GB0_IC1 | 0/3.3 | GB0_IC1 | 42 |

VIDEO SLOT I/F ASSY

VIDEO SLOT 2 ASSY

В

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| | VS5 (CN8954) | V | VIDEO SLOT 2 ASS | | |
|-----|--------------|-------------|------------------|-----|--|
| No. | Name | Voltage (V) | Name | No. | |
| | GB1 IC1 | | | 43 | |
| 43 | | 0/3.3 | GB1_IC1 | 43 | |
| 44 | GB2_IC1 | 0/3.3 | GB2_IC1 | | |
| 45 | GB3_IC1 | 0/3.3 | GB3_IC1 | | |
| 46 | GB4_IC1 | 0/3.3 | GB4_IC1 | 46 | |
| 47 | GB5_IC1 | 0/3.3 | GB5_IC1 | 47 | |
| 48 | GB6_IC1 | 0/3.3 | GB6_IC1 | 48 | |
| 49 | GB7_IC1 | 0/3.3 | GB7_IC1 | 49 | |
| 50 | | - | | 50 | |
| 51 | | - | | 51 | |
| 52 | GND | 0 | GND | 52 | |
| 53 | GND | 0 | GND | 53 | |
| 54 | BB0_IC1 | 0/3.3 | BB0_IC1 | 54 | |
| 55 | BB1_IC1 | 0/3.3 | BB1_IC1 | 55 | |
| 56 | BB2_IC1 | 0/3.3 | BB2_IC1 | 56 | |
| 57 | BB3_IC1 | 0/3.3 | BB3_IC1 | 57 | |
| 58 | BB4_IC1 | 0/3.3 | BB4_IC1 | 58 | |
| 59 | BB5_IC1 | 0/3.3 | BB5_IC1 | 59 | |
| 60 | BB5_IC1 | 0/3.3 | BB6_IC1 | + | |
| 61 | | 0/3.3 | | 60 | |
| - + | BB7_IC1 | | BB7_IC1 | | |
| 62 | GND | 0 | GND | 62 | |
| 63 | | | | 63 | |
| 64 | | | | 64 | |
| 65 | GND | 0 | GND | 65 | |
| 66 | GND | 0 | GND | 66 | |
| 67 | KEY | 3.3 | KEY | 67 | |
| 68 | NC | 0 | NC | 68 | |
| 69 | TXD_CARD | 0 | TXD_CARD | 69 | |
| 70 | RXD_CARD | 0 | RXD_CARD | 70 | |
| 71 | INT_EXT | 3.3 | INT_EXT | 71 | |
| 72 | NC | 0 | NC | 72 | |
| 73 | EMGREQ1_V | 0 | EMGREQ1_V | 73 | |
| 74 | EMGREQ2_V | 0 | EMGREQ2_V | 74 | |
| 75 | IC1V_OE | 3.3 | IC1V_OE | 75 | |
| 76 | RESETX1 | 3.3 | RESETX1 | 76 | |
| 77 | NC | 0 | NC | 77 | |
| 78 | SD_SEL | 3.3 | SD_SEL | 78 | |
| 79 | FNC2 | 0 | FNC2 | 79 | |
| - 1 | | | - | + - | |
| 80 | FNC3 | 0 | FNC3 | 80 | |
| 81 | SOUND1 | 3.3 | SOUND1 | 81 | |
| 82 | GND | 0 | GND | 82 | |
| 83 | DSUBR | 3.8 | DSUBR | 83 | |
| 84 | GND | 0 | GND | 84 | |
| 85 | DSUBG | 3.8 | DSUBG | 85 | |
| 86 | GND | 0 | GND | 86 | |
| 87 | DSUBB | 3.8 | DSUBB | 87 | |
| 88 | GND | 0 | GND | 88 | |
| 89 | IN5_HD | 0 | IN5_HD | 89 | |
| 90 | SOUSA_X | 3.3 | SOUSA_X | 90 | |
| 91 | GPC1 | 0 | GPC1 | 91 | |
| 92 | GPC2 | 0 | GPC2 | 92 | |
| 93 | GPC5 | 0 | GPC5 | 93 | |
| 94 | VYOBI1 | 0 | VYOBI1 | 94 | |
| 95 | VYOBI2 | 0 | VYOBI2 | 95 | |
| - | | | | +- | |
| 96 | DSUBSW_DET | 3.3 | DSUBSW_DET | 96 | |
| 101 | GND | 0 | GND | 101 | |
| 102 | GND | 0 | GND | 102 | |
| 103 | GND | 0 | GND | 103 | |

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PDP-5004

VIDEO SLOT I/F ASSY

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В

VIDEO SLOT 2 ASSY

| No. Name (V) 104 SCL_VS 3.1 SCL_VS 104 105 GND 0 GND 105 106 SDA_VS 3.1 SDA_VS 106 107 GND 0 GND 107 108 GND 0 GND 109 109 GND 0 GND 109 110 V+12V 12.9 V+12V 110 111 GND 0 GND 109 110 V+12V 12.9 V+12V 110 111 GND 0 GND 111 111 GND 0 GND 111 112 NC 0 NC 112 113 GND 0 GND 113 114 V+3.3STB 3.3 V+3.3STB 113 115 V+13.5 115 116 117 INA_DET 5 INA_DET | | VS5 (CN8954) | V-4 | CN7902 | |
|---|----------|--------------|----------------|----------|--|
| 104 | No. | · , | Voltage (V) | | No. |
| 105 | \vdash | | 3.1 | | |
| 106 | <u> </u> | | | | 1 |
| 107 | \vdash | | | | - |
| 108 | \vdash | | | | |
| 109 | | | | | |
| 110 | 108 | GND | 0 | GND | 108 |
| 1111 GND 0 GND 111 112 NC 0 NC 112 113 GND 0 GND 113 114 V+3.9STB 3.3 V+3.3STB 114 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 IN4_DET 5 IN4_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 120 IR 5.1 IR 120 121 NC 0 NC 122 120 IR 5.1 IR 120 121 NC 0 NC 122 122 NC 0 NC 122 123 GND | 109 | GND | 0 | GND | 109 |
| 112 NC 0 NC 112 113 GND 0 GND 113 114 V+3.3.STB 3.3 V+3.3STB 114 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 IN4_DET 5 IN4_DET 117 118 IN3_DET 0 INS_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 121 NC 0 NC 122 122 NC 0 NC 122 123 GND 0 GND 122 124 GND </td <td>110</td> <td>V+12V</td> <td>12.9</td> <td>V+12V</td> <td>110</td> | 110 | V+12V | 12.9 | V+12V | 110 |
| 113 GND 0 GND 113 114 V+3.3STB 3.3 V+3.3STB 114 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 IN4_DET 5 IN4_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 INS_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 127 129 GND 0 GND 123 130 CLK 1.5 CLK 130 131 GND 0 GND 133 132 BA7_IC1 0/3.3 BA7_IC1 136 136 BA3_IC1 0/3.3 BA4_IC1 137 137 BA2_IC1 0/3.3 BA3_IC1 138 139 BA0_IC1 0/3.3 BA1_IC1 138 140 GND 0 GND 141 151 GND 0 GND 141 152 GA7_IC1 0/3.3 BA1_IC1 138 153 BA4_IC1 0/3.3 BA1_IC1 138 154 GA7_IC1 0/3.3 BA1_IC1 138 155 GA4_IC1 0/3.3 BA1_IC1 138 156 GA7_IC1 0/3.3 BA1_IC1 138 157 BA2_IC1 0/3.3 BA1_IC1 138 158 BA1_IC1 0/3.3 BA1_IC1 138 159 BA1_IC1 0/3.3 GA7_IC1 144 150 GA7_IC1 0/3.3 GA7_IC1 144 151 GND 0 GND 140 152 GA7_IC1 0/3.3 GA7_IC1 144 154 GA7_IC1 0/3.3 GA7_IC1 144 155 GA4_IC1 0/3.3 GA3_IC1 144 156 GA3_IC1 0/3.3 GA3_IC1 144 157 GA2_IC1 0/3.3 GA3_IC1 144 158 GA1_IC1 0/3.3 GA3_IC1 144 159 GA1_IC1 0/3.3 GA3_IC1 144 150 GA1_IC1 0/3.3 GA3_IC1 144 151 GND 0 GND 141 152 GA7_IC1 0/3.3 GA3_IC1 144 155 GA4_IC1 0/3.3 GA3_IC1 144 155 GA4_IC1 0/3.3 GA3_IC1 144 156 GA3_IC1 0/3.3 GA3_IC1 144 157 GA2_IC1 0/3.3 GA3_IC1 144 158 GA1_IC1 0/3.3 GA3_IC1 144 159 GA1_IC1 0/3.3 GA3_IC1 144 150 GA1_IC1 0/3.3 GA3_IC1 144 151 GAD 0 GND 140 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 GA3_IC1 145 155 RA6_IC1 0/3.3 GA3_IC1 146 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA3_IC1 155 158 RA4_IC1 0/3.3 RA3_IC1 155 159 RA4_IC1 0/3.3 RA3_IC1 155 150 RA4_IC1 0/3.3 RA3_IC1 155 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA3_IC1 155 156 RA4_IC1 0/3.3 RA3_IC1 155 157 RA4_IC1 0/3.3 RA3_IC1 155 158 RA3_IC1 0/3.3 RA3_IC1 155 159 RA4_IC1 0/3.3 RA3_IC1 155 159 RA4_IC1 0/3.3 RA3_IC1 155 | 111 | GND | 0 | GND | 111 |
| 114 V+3,3STB 3,3 V+3,5TB 114 115 V+13,5 13,6 V+13,5 115 116 V+13,5 13,6 V+13,5 116 117 INA_DET 5 INA_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 120 IR 5.1 IR 120 121 NC 0 NC 122 120 IR 5.1 IR 120 121 NC 0 NC 122 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 122 125 3G4G 3.3 3G4G 125 126 <td< td=""><td>112</td><td>NC</td><td>0</td><td>NC</td><td>112</td></td<> | 112 | NC | 0 | NC | 112 |
| 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 INA_DET 5 INA_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 120 IR 5.1 IR 120 121 NC 0 NC 121 120 IR 5.1 IR 120 121 NC 0 NC 122 122 NC 0 NC 122 122 NC 0 GND 123 122 GND 0 GND 122 123 GAG 3.3 3G4G 125 124 GND 0 GND 127 128 DE | 113 | GND | 0 | GND | 113 |
| 116 V+13.5 13.6 V+13.5 116 117 INA_DET 5 INA_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 122 GND 0 GND 124 4 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND | 114 | V+3.3STB | 3.3 | V+3.3STB | 114 |
| 117 INA_DET 5 INA_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 123 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND | 115 | V+13.5 | 13.6 | V+13.5 | 115 |
| 118 INS_DET 0 INS_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 123 125 3G4G 3.3 3G4G 125 126 INS_DET 0 INS_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 121 132 BAA_LIC1 | 116 | V+13.5 | 13.6 | V+13.5 | 116 |
| 118 INS_DET 0 INS_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 123 125 3G4G 3.3 3G4G 125 126 INS_DET 0 INS_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 121 132 BAA_LIC1 | 117 | IN4 DET | 5 | IN4 DET | 117 |
| 119 | \vdash | | | | - |
| 120 | \vdash | | | | - |
| 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA6_IC1 132 133 BA6_IC1 0/3.3 BA5_IC1 133 134 BA5_IC1 0/3.3 BA4_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 135 1 | \vdash | | | | 1 |
| 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA6_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 136 137 BA2_IC1 0/3.3 BA4_IC1 133 | \vdash | | | | |
| 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA5_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA1_IC1 138 140 GND 0 GND 141 151 GND 0 GND 141 152 GA7_IC1 0/3.3 GA7_IC1 142 154 GA7_IC1 0/3.3 GA3_IC1 146 155 GA4_IC1 0/3.3 GA3_IC1 146 156 GA3_IC1 0/3.3 GA1_IC1 145 157 GA2_IC1 0/3.3 GA1_IC1 145 158 GA1_IC1 0/3.3 GA1_IC1 145 159 GND 0 GND 150 150 GND 150 151 GAA_IC1 0/3.3 GA1_IC1 145 155 GA4_IC1 0/3.3 GA1_IC1 146 156 GA1_IC1 0/3.3 GA1_IC1 146 157 GA2_IC1 0/3.3 GA1_IC1 146 158 GA1_IC1 0/3.3 GA1_IC1 146 159 GA1_IC1 0/3.3 GA1_IC1 146 150 GA1_IC1 0/3.3 GA1_IC1 146 150 GA1_IC1 0/3.3 GA1_IC1 146 151 GA1_IC1 0/3.3 GA1_IC1 146 152 GND 0 GND 152 153 GND 0 GND 153 154 GA7_IC1 0/3.3 RA5_IC1 155 156 GA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA3_IC1 156 158 RA3_IC1 0/3.3 RA3_IC1 156 159 RA2_IC1 0/3.3 RA3_IC1 156 | \vdash | | | | 1 |
| 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA6_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 1 | | | | | - |
| 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA4_IC1 135 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 135 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 | 123 | GND | 0 | GND | 123 |
| 126 INS_DET 0 INS_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA4_IC1 135 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA2_IC1 135 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND | 124 | GND | 0 | GND | 124 |
| 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA6_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA5_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 135 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA1_IC1 138 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 1 | 125 | 3G4G | 3.3 | 3G4G | 125 |
| 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 140 GND 0 GND 140 141 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA6_IC1 1 | 126 | IN5_DET | 0 | IN5_DET | 126 |
| 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 140 GND 0 GND 140 141 GND 0 GND 140 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA | 127 | GND | 0 | GND | 127 |
| 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 | 128 | DE | 2.5 | DE | 128 |
| 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 140 GND 0 GND 140 141 GND 0 GND 140 144 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA5_IC1 143 144 GA5_IC1 0/3.3 GA4_IC1 144 145 GA4_IC1 0/3.3 | 129 | GND | 0 | GND | 129 |
| 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA5_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3 | 130 | CLK | 1.5 | CLK | 130 |
| 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA5_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3 | 131 | GND | 0 | GND | 131 |
| 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 140 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 | | | | | |
| 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA6_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 | | | | | |
| 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA2_IC1 147 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 | \vdash | | | | |
| 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA3_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA2_IC1 147 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 </td <td>\vdash</td> <td></td> <td></td> <td></td> <td></td> | \vdash | | | | |
| 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA2_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 <td>\vdash</td> <td></td> <td></td> <td></td> <td></td> | \vdash | | | | |
| 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA2_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA2_IC1 147 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 | \vdash | | | _ | |
| 139 BAO_IC1 0/3.3 BAO_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 | \vdash | | | | |
| 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 | \vdash | | | | |
| 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 <td>139</td> <td>BA0_IC1</td> <td>0/3.3</td> <td>BA0_IC1</td> <td>139</td> | 139 | BA0_IC1 | 0/3.3 | BA0_IC1 | 139 |
| 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 </td <td>140</td> <td>GND</td> <td>0</td> <td>GND</td> <td>140</td> | 140 | GND | 0 | GND | 140 |
| 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 </td <td>141</td> <td>GND</td> <td>0</td> <td>GND</td> <td>141</td> | 141 | GND | 0 | GND | 141 |
| 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 </td <td>142</td> <td>GA7_IC1</td> <td>0/3.3</td> <td>GA7_IC1</td> <td>142</td> | 142 | GA7_IC1 | 0/3.3 | GA7_IC1 | 142 |
| 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | 143 | GA6_IC1 | 0/3.3 | GA6_IC1 | 143 |
| 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | 144 | GA5_IC1 | 0/3.3 | GA5_IC1 | 144 |
| 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | 145 | GA4_IC1 | 0/3.3 | GA4_IC1 | 145 |
| 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | 146 | GA3_IC1 | 0/3.3 | GA3_IC1 | 146 |
| 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | 147 | GA2_IC1 | | GA2_IC1 | |
| 149 GAO_IC1 0/3.3 GAO_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | \vdash | | | | |
| 150 | \vdash | | | | |
| 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | \vdash | 3. 3_101 | 5,5.0 | <u> </u> | |
| 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | \vdash | | | | \vdash |
| 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | \vdash | CND | | CND | \vdash |
| 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | \vdash | | | | |
| 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | | | | | |
| 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | \vdash | | | | - |
| 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | 155 | RA6_IC1 | 0/3.3 | | 155 |
| 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 | 156 | RA5_IC1 | 0/3.3 | RA5_IC1 | 156 |
| 159 RA2_IC1 0/3.3 RA2_IC1 159 | 157 | RA4_IC1 | 0/3.3 | RA4_IC1 | 157 |
| | 158 | RA3_IC1 | 0/3.3 | RA3_IC1 | 158 |
| 160 RA1_IC1 0/3.3 RA1_IC1 160 | 159 | RA2_IC1 | 0/3.3 | RA2_IC1 | 159 |
| | 160 | RA1_IC1 | 0/3.3 | RA1_IC1 | 160 |

VIDEO SLOT I/F ASSY VIDEO SLOT 2 ASSY

| | VS5 (CN8954) | Voltage | CN7902 | |
|-----|--------------|---------|-----------|-----|
| No. | Name | (V) | Name | No. |
| 161 | RA0_IC1 | 0/3.3 | RA0_IC1 | 161 |
| 162 | GND | 0 | GND | 162 |
| 163 | | | | 163 |
| 164 | | | | 164 |
| 165 | GND | 0 | GND | 165 |
| 166 | GND | 0 | GND | 166 |
| 167 | VSEPSCL | 3.3 | VSEPSCL | 167 |
| 168 | VSEPSDA | 3.3 | VSEPSDA | 168 |
| 169 | NC | 0 | NC | 169 |
| 170 | GET_UART | 3.3 | GET_UART | 170 |
| 171 | FIRST_RXD | 3.3 | FIRST_RXD | 171 |
| 172 | NC | 0 | NC | 172 |
| 173 | EMGREQ1_S | 0 | EMGREQ1_S | 173 |
| 174 | EMGREQ2_S | 0 | EMGREQ2_S | 174 |
| 175 | IC1S_OE | 0 | IC1S_OE | 175 |
| 176 | NC | 0 | NC | 176 |
| 177 | NC | 0 | NC | 177 |
| 178 | NC | 0 | NC | 178 |
| 179 | SLOT_ST3 | 0.4 | SLOT_ST3 | 179 |
| 180 | M_CHOICE | 0 | M_CHOICE | 180 |
| 181 | SOUND2 | 0 | SOUND2 | 181 |
| 182 | GND | 0 | GND | 182 |
| 183 | GND | 0 | GND | 183 |
| 184 | DSUBH | 5 | DSUBH | 184 |
| 185 | GND | 0 | GND | 185 |
| 186 | DSUBV | 0 | DSUBV | 186 |
| 187 | GND | 0 | GND | 187 |
| 188 | GND | 0 | GND | 188 |
| 189 | IN5_VD | 3.3 | IN5_VD | 189 |
| 190 | HYOUJI_X | 0 | HYOUJI_X | 190 |
| 191 | GPC3 | 0 | GPC3 | 191 |
| 192 | GPC4 | 0 | GPC4 | 192 |
| 193 | NC | 0 | NC | 193 |
| 194 | VYOBI4 | 0 | VYOBI4 | 194 |
| 195 | VYOBI5 | 0 | VYOBI5 | 195 |
| 196 | VYOBI6 | 0 | VYOBI6 | 196 |

KEY CONTROL ASSY

FRONT KEY ASSY

| | KY2 (CN9002) | | KY4 (CN9400) | |
|-----|--------------|----------------|--------------|-----|
| No. | Name | Voltage (V) | Name | No. |
| 1 | D7 | 0/3.3 | D7 | 1 |
| 2 | D6 | 0/3.3 | D6 | 2 |
| 3 | D5 | 0/3.3 | D5 | 3 |
| 4 | G0 | 0/3.3 | G0 | 4 |
| 5 | G1 | 0/3.3 | G1 | 5 |
| 6 | G2 | 0/3.3 | G2 | 6 |

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PDP-5004

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

 Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621$ RN1/4PC 5 6 2 1 F

Mark No. Description Part No. LIST OF ASSEMBLIES for PDP-5004, PDP-5014 models

| NSP | 150 ADDRESS ASSY | AWV2121 |
|-----|------------------------------------|--------------------|
| NSP | 250 ADDRESS ASSY | AWZ6839 |
| NSP | 150 SCAN FUKUGO ASSY | AWV2036 |
| NSP | 250 SCAN A ASSY | AW76809 |
| NSP | 250 SCAN A ASSY 250 SCAN B ASSY | AWZ6809 AWZ6810 |
| | | |
| NSP | 2X CONNECTOR A ASSY | AWZ6811 |
| NSP | 2X CONNECTOR B ASSY | AWZ6812 |
| NSP | 150 X DRIVE ASSY | AWV2143 |
| | 2PANEL SENSOR ASSY | AWZ6795 |
| | 250 X DRIVE ASSY | AWZ6959 |
| | 150 Y DRIVE ASSY | AWV2144 |
| | 150 1 DRIVE A551 | AVV V 2 1 4 4 |
| NSP | 1CM RGB ASSY | AWV2150 |
| | 2RGB ASSY | AWZ6961 |
| NSP | 1CMS FUKUGO ASSY(PDP-5004 | \ |
| NSP | | |
| NSP | 2AUDIO AMP ASSY | AWZ6848 |
| | | |
| | | AWZ6851 |
| | | AWZ6855 |
| | | AWZ6856 |
| | 2SP TERMINAL R ASSY | AWZ6857 |
| | 2COVER ASSY | AWZ6858 |
| | 2AV I/O I/F ASSY | AWZ6859 |
| | 2COMM SLOT I/F ASSY | AWZ6964 |
| | 2LED ASSY | AWZ6966 |
| | 2AV I/O ASSY (PDP-5004) | AWZ6967 |
| | 2AV I/O ASSY (PDP-5014) | AWZ6971 |
| | 2COMM SLOT ASSY | AWZ6968 |
| | 2KEY CONTROL ASSY | AWZ6969 |
| | 2FRONT KEY ASSY | AWZ6970 |
| | 1DIGITAL VIDEO ASSY | AWV2100 |

1..VIDEO SLOT2 ASSY

Mark No. Description Part No. LIST OF ASSEMBLIES for PDP-4304, PDP-4314 models

| | 143 ADDRESS ASSY 243 ADDRESS ASSY | AWV2120 AWZ6793 |
|------------|--------------------------------------|--------------------|
| NSP | 143 SCAN FUKUGO ASSY | AWV2023 |
| NSP | 243 SCAN A ASSY | AWZ6796 |
| | 243 SCAN B ASSY | AWZ6797 |
| | 2X CONNECTOR A ASSY | AWZ6798 |
| | 2X CONNECTOR B ASSY | |
| NSP | 143 X DRIVE ASSY | AWV2021 |
| | 2PANEL SENSOR ASSY | AWZ6795 |
| | 243 X DRIVE ASSY | AWZ6840 |
| | 143 Y DRIVE ASSY | AWV2022 |
| NSP | 1CM RGB ASSY | AWV2150 |
| | 2 DCB ASSV | AWZ6961 |
| NSP NSP | | AWV2100 |
| | 1VIDEO SLOT2 ASSY | AWV2159 |

CONTRAST OF PCB ASSEMBLIES

AV I/O ASSY

| Mark | No. Description | AWZ6967 | AWZ6971 |
|------|-----------------|-------------|-------------|
| | [IF UCOM BLOCK] | | |
| | R8743 | RS1/16S103J | Not used |
| | R8744 | Not used | RS1/16S103J |

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В

AWV2159

| 1 | 2 | 3 | 4 |
|---|------|---|---|
| | | | |

| | PCB PARTS LIST for PDP-5004, PDP-5014 models | | | | | | | |
|---|--|-------------------------------|--|--|--------------------------------|--|--|--|
| | Mark No. Description 50 ADDRESSASSY | Part No. | | Description , C3034, C3035 | Part No. ACG1088 | | | |
| Α | [50 ADR LOGICBLOCK] SEMICONDUCTORS | | (0.1microF/2 C3045, C3046 (0.1microF/2 | , C3056, C3057 | ACG1088 | | | |
| | IC1501 COILS AND FILTERS | PEE001B | | , C3016, C3019, C3026 , C3040, C3048, C3051 | CCSRCH101J50 CCSRCH101J50 | | | |
| | F1501-F1503 | ATF1194 | C3060, C3063 C3004 | | CCSRCH101J50 CCSRCH151J50 | | | |
| | CAPACITORS | | C3007, C3018 | , C3033, C3044, C3050 | CCSRCH181J50 | | | |
| | C1553, C1556, C1559, C1560, C1563 | | C3062 | , C3017, C3022 | CCSRCH181J50 CCSRCH331J50 | | | |
| | C1501, C1502 C1503-C1507, C1552, C1555, C1558 | ACH1357 CKSSYF104Z16 | 03000, 03011 | , 00017, 00022 | 00011011001100 | | | |
| | C1561, C1564 | CKSSYF104Z16 | | , C3042, C3043, C3049 | | | | |
| В | | | C3055, C3061 | | CCSRCH331J50 | | | |
| | <u>RESISTORS</u> | | | , C3020, C3021, C3028 , C3041, C3053, C3054 | | | | |
| | R1510, R1519, R1522, R1526 | RAB4C470J | C3064, C3065 | | CCSRCH390J50 | | | |
| | R1513-R1518 R1505-R1509 | RS1/16SS470J RS1/16SS1000F | | | | | | |
| | Other Resistors | RS1/16S###J | C3003, C3014 C3058 | , C3025, C3036, C3047 | CKSRYB105K6R3 CKSRYB105K6R3 | | | |
| - | <u>OTHERS</u> | | RESISTORS | | | | | |
| | CN1501 40P FFC CONNECTOR | AKM1215 | | , R3017, R3025, R3030 | RAB4C221J | | | |
| | | | R3036 | | RAB4C221J | | | |
| | [50 ADR RESONANCE BLOCK] | | Other Resistor | S | RS1/16S###J | | | |
| С | SEMICONDUCTORS | | OTHERS | | | | | |
| - | IC1601-IC1603 | TND304S | CN3001 15P C | CONNECTOR | AKP1218 | | | |
| | Q1604 Q1601 | 2SA1163 HAT1081R | · | , K3009, K3015, K3017 | AKX9002 | | | |
| | Q1602, Q1603 | HAT3019R | TEST PIN K3019, K3021 | TEST DIN | AKX9002 | | | |
| | D1601 | 1SS302 | 10019, 10021 | TEST IIII | A1003002 | | | |
| | D1608, D1609, D1617, D1618 | EC10UA20 | | | | | | |
| | D1610, D1611, D1616, D1619, D1620 D1604, D1612 | MA126 | 50 SCA | N B ASSY | | | | |
| | D1602, D1606, D1607, D1614, D1615 | | SEMICONDU | ICTORS | | | | |
| | D1621, D1622 | UDZS24B | IC3201-IC3206 | 5 | AN16003A | | | |
| _ | COILS AND FILTERS | | D3201 | | KU10N16 | | | |
| D | L1601, L1602 | ATH1135 | CAPACITORS | S | | | | |
| | 21001, 21002 | 7.1111100 | | , C3212, C3222, C3223 | ACG1088 | | | |
| | <u>CAPACITORS</u> | | (0.1microF/25 | - / | | | | |
| | C1609, C1615 (0.47microF) | ACE1172 | C3233, C3234 (0.1microF/25 | , C3244, C3245 | ACG1088 | | | |
| | C1605, C1607, C1608, C1613, C1614 (0.01microF/100V) | ACG1101 | C3255, C3256 | , | ACG1088 | | | |
| | C1618 | ACH1357 | (0.1microF/25 | | | | | |
| | C1603 (47microF/16V) | ACH1391 | | , C3214, C3215, C3226 , C3239, C3247, C3251 | CCSRCH101J50 CCSRCH101J50 | | | |
| | C1601, C1602 (56microF/80V) | ACH1405 | | | | | | |
| | C1604, C1606, C1612 | CKSSYF104Z16 | C3258, C3259 C3262 | | CCSRCH101J50 | | | |
| Е | DECISTORS | | | . C3232. C3243. C3249 | CCSRCH151J50 CCSRCH181J50 | | | |
| | RESISTORS R1631 | ACN1174 | C3261 | , 00_0_, 00_ 10, 00_ 10 | CCSRCH181J50 | | | |
| | R1633 | RS1/16S1202F | C3205, C3210 | , C3216, C3221 | CCSRCH331J50 | | | |
| | R1632 | RS1/16S1502F | C3230 C3231 | , C3241, C3242, C3248 | CCSBCH331.J50 | | | |
| | Other Resistors | RS1/16S###J | C3254, C3260 | | CCSRCH331J50 | | | |
| | | | | , C3219, C3220, C3227 | | | | |
| | | | | , C3240, C3252, C3253 | | | | |
| | 50 SCAN A ASSY | | C3263, C3264 | | CCSRCH390J50 | | | |
| | <u>SEMICONDUCTORS</u> | | C3202, C3213 | , C3224, C3235, C3246 | CKSRYB105K6R3 | | | |
| | IC3001-IC3006 | AN16003A | C3257 | | CKSRYB105K6R3 | | | |
| F | D3001 | KU10N16 | RESISTORS | | | | | |
| | CAPACITORS | | | , R3216, R3224, R3229 | BAB4C221.I | | | |
| | C3001, C3002, C3012, C3013 | ACG1088 | R3235 | , | RAB4C221J | | | |
| | (0.1microF/250V) | | Other Resistor | S | RS1/16S###J | | | |
| | 70 | PD | P-5004 | | | | | |
| - | 1 - | 2 | 2 | | 1 | | | |

| | 5 | 6 | _ | | 7 | - | 8 | | |
|--------------------------|--|-------------------------------|-------|--------------------------|--------|---------------------|----------------------------|----|---|
| Mark No. | <u>Description</u> | Part No. | | Mark No. | | Description | Part No. | | |
| OTHERS | D 00111:2072 | ALCDICIO | | DECIOTOR | | | | | |
| | P CONNECTOR 08, K3214, K3216, K3218 | AKP1218 AKX9002 | | RESISTOR R1116, R11 | | | RS1/10S1003F | | |
| TEST PIN | | AICKGOOZ | | R1133, R11 | | R1145 | RS1/10S1003I | | Α |
| K3220, K32 | 21 TEST PIN | AKX9002 | | | | R1110, R1111 | RS1/10S2R2J | | |
| | | | | | 119, F | R1123, R1126, R1153 | | | |
| | | | | R1136 | | | RS1/16S1202F | | |
| x co | NNECTOR A ASS | SY | | R1139 | | | RS1/16S3301F | | |
| | has no service part. | | | R1130 | | | RS1/16S5601F | | |
| • | · | | | R1134 R1113, R11 | 120 | | RS1/16S8201F RS1MMF101J | | |
| V 00 | | 27 | | VR1101-VF | | 1 | CCP1390 | | |
| | NNECTOR B ASS | ΣΥ | | | | | | | |
| This assembly | has no service part. | | | Other Resis | stors | | RS1/16S###J | | |
| | | | | OTHERS | | | | | В |
| | | | | 3301 SPAC | ER | | AEH1075 | | |
| | DRIVE ASSY | | | 3501 SCR | EW | | PMH30P080FMC | | |
| [50 X LOGIC | | | | | | | | | |
| SEMICONE | DUCTORS | | | [50 X SUS E | si O | nk1 | | | |
| IC1002 IC1001 | | TC74ACT540FT TC74ACT541FT | | SEMICONI | | | | | |
| IC1001 | | TC74VHC08FT | | IC1202 | | <u> </u> | HCPL-M611 | | _ |
| | | | | IC1205 | | | NJM2872F05 | | |
| CAPACITO | RS | | | IC1203, IC1 | 1207 | | STK795-512 | | |
| C1001 C1002-C100 | 24 | CEHAT470M25 CKSRYB104K16 | | IC1208 IC1204, IC1 | 1206 | | TLP181(P-GR) TND301S | | |
| C 1002-C 100 | J4 | CKSHYB104K16 | | 101204, 101 | 1200 | | 11400010 | | С |
| RESISTOR | S | | | Q1207 | | | 2SC2412K | | O |
| R1001, R10 | | RAB4C470J | | Q1203 | | | 2SD1898 | | |
| R1003, R10 | 04, R1007 | RAB4C472J | | Q1302 Q1301 | | | 2SJ522 2SK2503 | | |
| OTHERS | | | | Q1205 | | | 2SK3116-Z | | |
| | P FFC CONNECTOR | AKM1218 | | 0 | | | DT0 / 0 / E1 / | | |
| 0111001 00 | | 7114071210 | | Q1206, Q12 Q1201 | 208 | | DTC124EK HN1B04FU | | |
| | | | | D1212 | | | 1SS302 | | |
| | NANCE BLOCK] | | | D1211, D12 | | D1216 | 1SS355 | | |
| SEMICONE IC1103 | <u>JUCTURS</u> | BA10393F | | D1201, D12 | 207 | | EC10QS04 | | |
| IC1103 | 102 | TND506MD | | D1204, D13 | 301 | | EC11FS4 | | D |
| Q1113 | | 2SC2412K | | D1214 | | | EC8FS6 | | D |
| | 03, Q1111, Q1112 | 2SK3560 | | D1208 | | | UDZS5.6B | | |
| Q1105, Q11 | 06, Q1108, Q1109 | 2SK3723 | | COILS ANI | D EI | LTEDO | | | |
| Q1101, Q11 | 04, Q1107, Q1110 | CPH5506 | | L1204, L120 | | LIENS | ATH1112 | | |
| D1109, D11 | | 1SS302 | | L1202 | 00 | | LFEA100J | | |
| D1131, D11 | 32 02, D1104, D1105 | 1SS355 EC11FS4 | | L1203, L120 | 06 | | LFEA470J | | _ |
| | 02, D1104, D1105 08, D1111, D1114-D1117 | EC11FS4 | | CADACITO | DC | | | | |
| , | ,, | | | CAPACITO | | C1227-C1230 | ACE1163 | | |
| | 21, D1127, D1128 | EC11FS4 | | C1233 | .17, C | 71227-01200 | ACE1169 | | |
| D1103, D11 D1113, D11 | 18, D1124, D1125, D1130 | FCU20A30 RF2001T3D | | C1244 | | | ACE1170 | | Е |
| D1110, D11 | | UDZS16B | | C1209 (0.1r | | F/630V) | ACG1092 | | _ |
| | | | | C1219, C12 | 152 | | ACH1358 | | |
| COILS AND | | ATI 14440 | | C1224 | | | CEHAT101M16 | | |
| L1103, L110 L1104 |)5 | ATH1119 ATH1155 | | C1301 | | | CEHAT221M25 | | |
| L1104 | | ATH1156 | | C1203, C12 C1238, C12 | | C1210, C1220, C1223 | CEHAT470M25 CEHAT470M25 | | |
| L1101 | | LFEA470J | | C1235, C12 | 209 | | CKSRYB102K50 | | |
| CADACITO | De | | | | | | | | |
| CAPACITO | <u>RS</u> 14, C1125-C1127 | ACE1168 | | | | C1240, C1241, C1243 | | | |
| | 14, C1125-C1127 24 (100pF/630V) | ACE 1168 ACG1104 | | U1202, U12 | ٤٥٥, (| C1206, C1212, C1302 | CKSRYF104Z50 | | |
| · | 19 (0.1microF/630V) | ACG1108 | | RESISTOR | S | | | | _ |
| | 05, C1116, C1117 | CCSRCH331J50 | | R1230 | | | ACN1166 | | F |
| C1128, C11 C1102, C11 | | CKSRYB104K16 CKSRYB105K6R3 | | R1208, R13 | 321, F | R1322 | ACN1174 | | |
| | 08, C1115, C1122 | CKSYB105K25 | | R1304 | | | ACN1195 | | |
| , | . , | | DDD 1 | 5004 | | | | 71 | |
| - | 5 | 6 | PDP-5 | 7004 | 7 | _ | 8 | | - |
| | | - | | | | | - | | |

| Mark No. Description | 1 | _ | 2 | | 3 | - | 4 |
|--|-------------------|--------------------|--------------|----------|---------------------------|---------------------|-----------------------------|
| R100, R102c, R1031 | Mark No. | <u>Description</u> | Part No. | <u> </u> | Mark No. | Description | Part No. |
| R128, R1261 R51MMF331 R52MMF321 R5 | | 314 | | | R1076, R1078 | | |
| MINISTRANCES MINI | R1235, R1236 | | RS2MMF121J | | | | N3 1/103###J |
| Carrier Carr | KN1201-KN1205, | | ANK-142 | | [50 Y LOGIC BLOSEMICONDUC | OCK] | |
| SEMICONDUCTORS C2001 | CN1201 12P TOP | POST | B12B-EH | | IC2001, IC2003 IC2005 | | TC74ACT541FT TC74VHC08FT |
| CAPACITORS | SEMICONDUCT | | | | | | |
| C-1401 C-1403 | | | | | CAPACITORS | | |
| Carror C | | | | | | | |
| D1404 D1407 D1403 D1256.6B D1256.6 | Q1401 | | 2SA1037K | | | | |
| D1404 D1407 D1403 D1256.6B D1256.6 | D1407 D1400 | | F011F00 | | RESISTORS | | |
| D1401, D1403 | · · | | | | | | RAB4C102J |
| COILS AND FILTERS Other Resistors RS1/16S##J L1401 T1401 ATH1110 ATK1163 OTHERS CN2001 AKM1201 CAPACITORS C1401, C1402 ACH1361 SEMICONDUCTORS C1404 CEHAT101M65 SEMICONDUCTORS C1409 CEHAT31M16 IC2211 BA10393F C1409 CH403, C1407, C1408, C1411 CKSRYB104K16 IC2202 TD566MD C1406 CKSRYF104Z50 Q2202, Q2210, Q2220, Q2214 25K3560 C2205, Q2206, Q2208, Q2209 25K3723 25K3723 RESISTORS R1405, R1406, R1408-R1410, R1414 RS1/16S1101F D2209, D2220, Q2210, Q2210, Q2210 CPH5506 R1403 RS1/16S7702F D2209, D2223 1SS302 R1404 RS1/16S7701F D22020-D2205, D2207, D2208 EC11FS4 R1417 RS1/16S7500F D2213, D2214, D2219, D2222 EC11FS4 VP1401 CCP1390 D2226, D2227 D2218, D2219, D2229 EC11FS4 Other Resistors RS1/16S###J D2201, D2206, D2211, D2220, D2299 FC0120A30 RF2 | | | | | | | |
| CAPACITORS | COILS AND FIL | TERS | | | | , , , , | RS1/16S###J |
| C1401, C1402 | | | | | | | AKM1201 |
| C1404 | | | | | | | |
| C1405 | , | | | | [50 Y RESONAN | CE BLOCK] | |
| C1403, C1407, C1408, C1411 | | | | | | | |
| C213 25C2412K C1406 CKSRYF104Z50 Q2202, Q2211, Q2212, Q2214, 25K3560 Q2205, Q2208, Q2209, Q25K3723 RESISTORS R1405, R1406, R1408-R1410, R1414 R51/10S3602F R1420 R51/16S1101F R1403 R51/16S2702F R1401, R1404 R51/16S2702F R1417 R51/16S7500F D2203, D2232 1SS355 R1401, R1404 R51/16S7500F D2209, D2223 1SS355 R1401, R1404 R51/16S7500F D2213, D2214, D2216-D2219, D2222 EC11FS4 R1417 R51/16S7##J D2209, D2232 D2203, D2332 D2201, D2205, D2207, D2208 EC11FS4 R1417 R51/16S7##J D2201, D2204, D2205, D2207, D2208 EC11FS4 R1417 R51/16S7##J D2213, D2214, D2216-D2219, D2222 EC11FS4 D2210, D2226, D2217, D2222 EC11FS4 D2210, D2226, D2217, D2220, D2229 FCU20A30 D2210, D2206, D2211, D2220, D2229 FCU20A30 D2210, D22204 UD2S16B OTHERS D2210, D2224 UD2S16B OTHERS D2210, D2224 UD2S16B OTHERS COIL ATH119 L2204 CHOKE COIL ATH1155 C2211, C2224 (100pF/630V) ACG1108 C2212, C2224, C2225, C2235, C2235 CXSRVB104K16 C2210, C2223, C2233, C2235 CXSRVB104K16 C2201, C2203, C2218 CXSRVB105K6R3 CXSRVB105K6R3 CXSRVB105K6R3 CXSRVB105K6R3 CXSRVB105K6R3 CXSRVB105K6R3 CXSRVB105K16 C1072, C1073 CXSRVB105K16 RESISTORS RS1/10S100J | | | | | | | |
| C1406 | C1403, C1407, C1 | 408, C1411 | CKSRYB104K16 | | | | |
| RESISTORS | C1406 | | CKSRYF104Z50 | | Q2202, Q2211, 0 | · · | 2SK3560 |
| R1405, R1406, R1408-R1410, R1414 | RESISTORS | | | | Q2200, Q2200, V | 32200, Q2200 | 2010720 |
| R1403 | | 408-R1410, R1414 | RS1/10S3602F | | | Q2207, Q2210 | |
| National Color | | | | | • | | |
| Name | | | | | , | 2207, D2208 | |
| D2201, D2206, D2211, D2220, D2229 FCU20A30 D2215, D2228 D2215, D2228 D2215, D2228 D2216, D2224 D2256B D2210, D2224 D22516B D22516B D2210, D2224 D22516B D2210, D2225 | · | | | | | | EC11FS4 |
| D2215, D2228 | VR1401 | | CCP1390 | | · | | |
| D2210, D2224 DDZS16B | Other Resistors | | RS1/16S###J | | , , |)2211, D2220, D2229 | |
| 1002 CARD SPACER | OTHERS | | | | -, | | |
| 1001 DRIVE SIRICON SHEET AEH1062 L2203 L2205 CHOKE COIL ATH1119 | | CER | AEC1957 | | | | |
| 1001 DRIVE HEATSINK A | | CON SHEET | AEH1062 | | | | ATL 1444 O |
| 1001 SCREW BMZ30P080FZK L2202 CHOKE COIL ATH1156 LFEA470J | | TOINIK A | | | , | | |
| L2201 LFEA470J | | I SINK A | | | | | |
| PANEL SENSOR ASSY PANEL SENSOR ASSY C2212-C2214, C2225-C2227 C2211, C2224 (100pF/630V) C2210, C2223 (0.1microF/630V) ACG1104 C2210, C2223 (0.1microF/630V) C2210, C2223, C2216, C2217 CCSRCH331J50 C2202, C2205, C2216, C2217 CCSRCH331J50 C2203, C2232, C2233, C2235 CKSRYB104K16 C2201, C2203, C2232, C2233, C2235 CKSRYB105K6R3 C2201, C2208, C2215, C2219 CKSYB105K25 C1074 CKSRYB103K50 C1071, C1076 CKSRYB104K16 C1072, C1073 CKSRYB104K16 RESISTORS R2240, R2241 RS1/10S100J | | | | | L2201 | | LFEA470J |
| PANEL SENSOR ASSY C2211, C2224 (100pF/630V) ACG1104 SEMICONDUCTORS C2210, C2223 (0.1microF/630V) ACG1108 IC1072 MM1522XU C2202, C2205, C2216, C2217 CCSRCH331J50 C1071 MM3012XN C2230, C2232, C2233, C2235 CKSRYB104K16 CAPACITORS C1075 ACH1357 C2201, C2208, C2215, C2219 CKSRYB105K6R3 C1074 CKSRYB103K50 CKSRYB104K16 RESISTORS C1072, C1073 CKSRYF105Z10 R2240, R2241 RS1/10S1003F R2244-R2247 RS1/10S100J | | | | | | :2225-C2227 | ACE1168 |
| C2210, C2223 (0.1microF/630V) | PANEL SI | ENSOR ASSV | , | | | | |
| C1072 | | | | | | | |
| C1071 | | | MM1522XU | | | | |
| CAPACITORS C2201, C2208, C2215, C2219 CKSYB105K25 C1075 ACH1357 CKSRYB103K50 CKSRYB103K50 C1071, C1076 CKSRYB104K16 RESISTORS R2240, R2241 RS1/10S1003F C1072, C1073 CKSRYF105Z10 R2244-R2247 RS1/10S100J | IC1071 | | MM3012XN | | , , | 00, 02200 | |
| C1075 ACH1357 C1074 CKSRYB103K50 C1071, C1076 CKSRYB104K16 C1072, C1073 CKSRYF105Z10 R2240, R2241 RS1/10S1003F R2244-R2247 RS1/10S100J | CAPACITORS | | | | , | C2215, C2219 | |
| C1071, C1076 | | | | | , , , ====3, | , - | - |
| C1072, C1073 CKSRYF105Z10 R2240, R2241 RS1/10S1003F R2244-R2247 RS1/10S100J | | | | | DECISTORS | | |
| R2244, R2247 RS1/10S100J | · | | | | | | RS1/10S1002E |
| 72 PDP-5004 | . , | | | | , | | |
| | 72 | | | PDP-5004 | | | |

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|---|---------------------------|-------------------|---------------------------|-----------------|---------------------|--|
| lark No. Description | Part No. | Mark No. | Des | <u>cription</u> | Part No. | |
| R2204, R2205, R2211, R2213 | RS1/10S2R2J | OTHERS | 3 | • | | |
| R2220, R2221, R2224, R2228, R2253 | | | <u>-</u> -KN2305, KN23 | 10 KN3313 | ANK-142 | |
| R2234 | RS1/16S1202F | | -KN2316 GROU | | ANK-142 | |
| | 1101/1001202 | | 11P TOP POS | | B11B-EH | |
| R2235 | RS1/16S3301F | CIN2301 | 111 101 103 | · I | DIID-EN | |
| R2233 | RS1/16S5601F | | | | | |
| R2242 | RS1/16S8201F | [E0.V.00. | AN DI COKI | | | |
| R2215, R2230 | RS1MMF101J | | AN BLOCK] | _ | | |
| VR2201-VR2204 | CCP1390 | <u>SEMICO</u> | NDUCTORS | <u>3</u> | | |
| VH2201-VH2204 | CCF 1390 | IC2101, | IC2103-IC2106 | ,IC2108,IC2109 | HCPL-M611 | |
| Other Resistors | RS1/16S###J | IC2102, | IC2107 | | TC74ACT540FT | |
| Other resistors | 1131/103###3 | | | | | |
| THERE | | COILS A | ND FILTER | <u>.S</u> | | |
| THERS | A EL 14 0 7 E | L2101-L2 | 2103 | | LFEA100J | |
| 3301 SPACER | AEH1075 | | | | | |
| 3501 SCREW | PMH30P080FMC | CAPACI | TORS | | | |
| | | | C2111, C2116, (| C2117 | ACH1392 | |
| | | | C2107, C2113 | 02117 | CEHAT221M16 | |
| Y SUS BLOCK] | | | C2103, C2105, (| C2106 | CKSRYB104K16 | |
| EMICONDUCTORS | | | C2103, C2103, C | | CKSRYB104K16 | |
| IC2302, IC2308 | HCPL-M611 | 02100-0 | ,_ 110, UZ11Z, C | <i>></i> ∟ | OKO111 D 10+K10 | |
| IC2305 | NJM2872F05 | DECICT | OD6 | | | |
| C2303, IC2307 | STK795-513 | RESISTO | | | DAD46 :== : | |
| C2301, IC2304, IC2309 | TND301S | R2121, F | | | RAB4C472J | |
| Q2310 | 2SC2412K | Other Re | esistors | | RS1/16S###J | |
| | | A= | _ | | | |
| Q2303, Q2307 | 2SD1898 | OTHERS | _ | | | |
| Q2301 [°] | 2SJ522 | CN2101 | , CN2102 15P | CONNECTOR | AKM1200 | |
| Q2302, Q2308, Q2312 | 2SK3325-Z | | | | | |
| Q2309 | HN1B04FU | | | | | |
| 02302 | 1SS302 | [50 Y D-D | CON BLOCK | K] | | |
| | | - | NDUCTORS | - | | |
| 02319, D2320 | EC10QS04 | IC2410-I | | _ | AN1431M | |
| 02305 | EC11FS4 | IC2406 | | | BA10358F | |
| 02301 | UDZS16B | IC2401 | | | MIP0223SC | |
| D2306, D2318 | UDZS5.6B | | IC2405, IC2407- | -IC2409 | TLP181(P-GR) | |
| - , | | Q2402, (| | .52-100 | 2SA1037K | |
| DILS AND FILTERS | | QZ40Z, (| QTO1 | | LOTTIONIC | |
| _2306, L2307 | ATH1112 | Q2410 | | | 2SA1163 | |
| _2306, L2307 _2304 | LFEA100J | Q2417 | | | 2SA1535 | |
| _2304 _2308 | LFEA100J | | Q2414, Q2416 | | 2SC2412K | |
| _2306 _2301, L2302, L2305 | LFEA470J | Q2405 | , & 10 | | 2SC2713 | |
| -2001, L2002, L2000 | LFEA4/UJ | Q2403 Q2403 | | | 2SD1664 | |
| PACITORS | | Q24U3 | | | 20D 1004 | |
| PACITORS | 10=11= | Q2401, (| O2404 | | 2SD1898 | |
| C2309-C2312, C2326, C2327 | ACE1163 | Q2401, Q Q2415 | 4 ∠404 | | 25D1898 HN1C01FU | |
| C2329, C2330 | ACE1163 | Q2415 D2430 | | | 1SS301 | |
| C2314 | ACE1165 | | D0/10 D0/06 | | | |
| C2302 | ACG1092 | · | D2419, D2436 | | 1SS302 | |
| C2316, C2331 | ACH1358 | D2409, [| J2418 | | 1SS355 | |
| | | D04017 | 20407 | | E011E00 | |
| 22303 | ACH1361 | D2404-D | | | EC11FS2 | |
| 2336 | ACH1393 | D2403, [| J2414 | | EC11FS4 | |
| C2306, C2334 | CEHAT221M25 | D2402 | | | EC8FS6 | |
| C2308, C2324, C2339, C2340 | CEHAT470M16 | D2427 | | | RD91PA | |
| C2304, C2320, C2338 | CEHAT470M25 | D2401 | | | U1ZB330 | |
| • | | | _ | | | |
| 02305, C2322, C2323, C2325, C2333 | CKSRYB104K16 | · | D2413, D2422 | | UDZS15B | |
| C2341 | CKSRYB104K16 | D2425, [| D2426 | | UDZS27B | |
| C2301, C2307, C2328 | CKSRYF104Z50 | D2415 | | | UDZS33B | |
| | | D2432 | | | UDZS4.3B | |
| SISTORS | | D2423, [| D2431 | | UDZS5.6B | |
| R2332 | ACN1166 | | | | | |
| R2364, R2365 | ACN1174 | COILS A | AND FILTER | <u>S</u> | | |
| R2309 | RS1MMF132J | T2402 | | | ATK1156 | |
| | RS1MMF472J | T2403 | | | ATK1157 | |
| | | T2401 | | | ATK1158 | |
| R2310, R2311 | RS3LMF100J | L2402 | | | LFEA100J | |
| R2310, R2311 | | | | | LFEA101J | |
| R2310, R2311 R2312-R2314, R2322, R2323 | DOI ME1DO I | L 2401 | | | LL LA IUIJ | |
| R2310, R2311 R2312-R2314, R2322, R2323 R2348, R2352, R2358, R2359 | RS3LMF1R8J | L2401 | | | LILATOTS | |
| R2310, R2311 R2312-R2314, R2322, R2323 | RS3LMF1R8J RS1/16S###J | L2401 L2403 | | | LFEA470J | |

| | Mark No. Description | Part No. | Mark No. Description | Part No. |
|---|--|------------------------------|--|--------------------|
| | CAPACITORS | | R1513-R1518 | RS1/16SS470J |
| | C2406 | ACH1360 | R1505-R1509 | RS1/16SS1000F |
| | C2401 | ACH1361 | Other Resistors | RS1/16S###J |
| Α | C2427 | CEHAT100M50 | | |
| | C2403 | CEHAT101M16 | OTHERS | |
| | C2405, C2407, C2417 | CEHAT101M25 | CN1501 40P FFC CONNECTOR | AKM1215 |
| | ,, | | | |
| | C2414 | CEHAT221M16 | | |
| | C2410 | CEHAT221M25 | [ADR RESONANNCE BLOCK] | |
| • | C2411 | CEHAT331M25 | SEMICONDUCTORS | |
| _ | C2420 | CEHAT470M2A | IC1601-IC1603 | TND304S |
| | C2409, C2419 | CKSRYB103K50 | Q1604 | 2SA1163 |
| | CO400 CO410 CO410 CO400 CO405 | CKCDVD104K1C | Q1601 | HAT1081R |
| | C2402, C2412, C2413, C2423, C2425 C2431, C2432, C2434-C2436 | CKSRYB104K16 | Q1602,Q1603 | HAT3019R |
| | C2431, C2432, C2434-C2436 C2441-C2443 | CKSRYB104K16 | D1601 | 1SS302 |
| В | C2415, C2421, C2428 | CKSRYB105K6R3 | | |
| | C2404, C2408, C2416, C2418, C2426 | | D1608,D1609,D1617,D1618 | EC10UA20 |
| | 02 10 1, 02 100, 02 110, 02 110, | 0.101111 10.1200 | D1610,D1611,D1616,D1619,D1620 | EC11FS2 |
| | C2429 | CKSRYF104Z50 | D1604,D1612 | MA126 |
| | | | D1602,D1606,D1607,D1614,D1615 D1621,D1622 | UDZS15B UDZS24B |
| | RESISTORS | | 01021,01022 | 0023240 |
| | R2429 | ACN1225 | COILS AND FILTERS | |
| _ | R2435, R2439 | RS1/10S2202F | L1601.L1602 | ATH1135 |
| | R2402-R2404 | RS1/10S3902F | L1001,L1002 | ATTTTOO |
| | R2442 | RS1/16S1201F | CAPACITORS | |
| | R2468 | RS1/16S1202F | C1609,C1615 (0.47/100V) | ACE1172 |
| | D0 10 1 | D0.//.0000.15 | C1605,C1607,C1608,C1613,C1614 | ACG1101 |
| С | R2424 | RS1/16S2001F | (0.01/100V) | 7.001101 |
| | R2420, R2427, R2438 | RS1/16S2201F | C1618 (47/6.3V) | ACH1357 |
| | R2467 R2457-R2460 | RS1/16S3301F RS1/16S4701F | C1603 (47/16V) | ACH1391 |
| | R2506 | RS3LMF151J | | |
| | 112000 | TIGOLIVII TOTO | C1601,C1602 (56/80V) | ACH1405 |
| | VR2401, VR2402 | CCP1390 | C1604,C1606,C1612 | CKSSYF104Z16 |
| | Other Resistors | RS1/16S###J | | |
| | | | <u>RESISTORS</u> | |
| | <u>OTHERS</u> | | R1631 (10,1/2W) | ACN1174 |
| | 2401 HEATSINK | ANH1614 | Other Resistors | RS1/16S###J |
| | 2401 SCREW | BBZ30P080FZK | | |
| | 2002 CARD SPACER | AEC1957 | | |
| D | 2001 DRIVE SIRICON SHEET | AEH1062 | 43 SCAN A ASSY | |
| | 2001 PLATEY | ANG2557 | | |
| | 2001 DRIVE HEATSINK A | ANH1613 | SEMICONDUCTORS | |
| | 2001 SCREW | BMZ30P080FZK | IC3001-IC3006 | SN755864APZP |
| | 2002 SCREW | PMB30P060FNI | D3001 | KU10N16 |
| _ | | | CAPACITORS | |
| | | | C3001,C3002,C3012,C3013 | ACG1088 |
| | PCB PARTS LIST for PDP- | 4304. PDP-4314 | C3023,C3024,C3034,C3035 | ACG1088 |
| | models | | C3045,C3046,C3056,C3057 | ACG1088 |
| | <u>IIIOueis</u> | | (0.1/250V) | |
| | 40 ADDDEGG AGGV | | C3005,C3008,C3016,C3019,C3026 | CCSRCH101J50 |
| Е | 43 ADDRESS ASSY | | | |
| _ | [ADR LOGIC BLOCK] | | C3029,C3037,C3040,C3048,C3051 | CCSRCH101J50 |
| | <u>SEMICONDUCTORS</u> | | C3060,C3063 | CCSRCH101J50 |
| | IC1501 | PEE001B | C3007,C3018,C3033,C3044,C3050 | CCSRCH181J50 |
| | | | C3062 | CCSRCH181J50 |
| | COILS AND FILTERS | | C3006,C3011,C3017,C3022 | CCSRCH331J50 |
| | F1501-F1503 | ATF1194 | C3031,C3032,C3042,C3043,C3049 | CCSRCH331J50 |
| - | | | C3055,C3061,C3066 | CCSRCH331J50 |
| | <u>CAPACITORS</u> | | C3009,C3010,C3020,C3021,C3028 | CCSRCH390J50 |
| | C1556,C1559,C1560,C1563 | ACG1105 | C3030,C3039,C3041,C3053,C3054 | CCSRCH390J50 |
| | (330p/100V) | | C3064,C3065 | CCSRCH390J50 |
| | C1501,C1502(47/6.3V) | ACH1357 | · | |
| F | C1503-C1507,C1555,C1558,C1561 | CKSSYF104Z16 | C3003,C3014,C3025,C3036,C3047 | CKSRYB105K6R3 |
| Г | C1564 | CKSSYF104Z16 | C3058 | CKSRYB105K6R3 |
| | RESISTORS | | | |
| | R1510,R1519,R1522 | RAB4C470J | RESISTORS | |
| | | | - | |
| _ | 74 | PDP-5004 | - | 4 |
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| Mark No. Description | Part No. | Mark No. Description | Part No. | |
| R3003,R3011,R3017,R3025,R3030 | RAB4C221J | IC1001 | TC74ACT541FT | |
| R3036 | RAB4C221J | IC1003 | TC74VHC08FT | |
| Other Resistors | RS1/16S###J | CAPACITORS | | |
| <u>OTHERS</u> | | C1001 | CEHAT470M25 | Α |
| CN3001 15P CONNECTOR | AKP1218 | C1002-C1004 | CKSRYB104K16 | |
| K3001,K3004,K3009,K3015,K3017 K3019,K3021 TEST PIN | AKX9002 AKX9002 | RESISTORS | | |
| 10010,10021 12011111 | AIOOOOL | R1001,R1002,R1005 | RAB4C470J | |
| | | R1003,R1004,R1007 | RAB4C472J | |
| | | | | |
| 43 SCAN B ASSY | | <u>OTHERS</u> | | _ |
| <u>SEMICONDUCTORS</u> | | CN1001 30P FFC CONNECTOR | AKM1218 | |
| IC3201-IC3206 | SN755864APZP | | | |
| D3201 | KU10N16 | [RESONANCE BLOCK] | | |
| <u>CAPACITORS</u> C3201,C3211,C3212,C3222,C3223 | ACG1088 | SEMICONDUCTORS | | В |
| C3233,C3234,C3244,C3245 | ACG1088 | IC1103 | BA10393F | Ь |
| C3255,C3256,C3266 (0.1/250V) | ACG1088 | IC1101,IC1102 | TND506MD | |
| C3203,C3204,C3214,C3215,C3226 | CCSRCH101J50 | Q1113 | 2SC2412K | |
| C3228,C3237,C3239,C3247,C3251 | CCSRCH101J50 | Q1102,Q1103,Q1111,Q1112,Q1114 | 2SK3560 | |
| C3258,C3259 | CCSRCH101J50 | Q1105,Q1106,Q1108,Q1109 | 2SK3723 | |
| C3206,C3217,C3232,C3243,C3249 | CCSRCH181J50 | Q1101,Q1104,Q1107,Q1110 | CPH5506 | |
| C3261 | CCSRCH181J50 | D1109,D1122 | 1SS302 | |
| C3205,C3210,C3216,C3221 | CCSRCH331J50 | D1112,D1119 | 1SS355 | |
| C3230,C3231,C3241,C3242,C3248 | CCSRCH331J50 | D1101,D1102,D1104,D1105 | EC11FS4 | |
| C3254,C3260,C3265 | CCSRCH331J50 | D1107,D1108,D1111,D1114-D1117 | EC11FS4 | |
| C3208,C3209,C3219,C3220,C3227 | CCSRCH390J50 | D1120,D1121,D1127,D1128 | EC11FS4 | С |
| C3229,C3238,C3240,C3252,C3253 | CCSRCH390J50 | D1103,D1106,D1113,D1118 | TCU20A30 | _ |
| C3263,C3264 | CCSRCH390J50 | D1124,D1125 | TCU20A30 | |
| C3202,C3213,C3224,C3235,C3246 | CKSRYB105K6R3 | D1110,D1123 | UDZS16B | |
| C3257 | CKSRYB105K6R3 | COILS AND FILTERS | | |
| | | L1104 | ATH1119 | |
| <u>RESISTORS</u> | | L1102 | ATH1133 | _ |
| R3202,R3210,R3216,R3224,R3229 | RAB4C221J | L1103,L1105 | ATH1134 | |
| R3235 Other Resistors | RAB4C221J RS1/16S###J | L1101 | LFEA470J | |
| Other resistors | 1131/103###0 | CAPACITORS | | |
| <u>OTHERS</u> | | C1113,C1114,C1126,C1127 (3.3/250V) | ACE1168 | Б. |
| CN3201 15P CONNECTOR | AKP1218 | C1111,C1124 (100p/630V) | ACG1104 | D |
| K3203,K3208,K3214,K3216,K3218 | AKX9002 | C1109,C1119 (0.1/630V) | ACG1108 | |
| K3220,K3221 TEST PIN | AKX9002 | C1101,C1105,C1116,C1117 C1128,C1130-C1132 | CCSRCH331J50 CKSRYB104K16 | |
| | | C1120,C1130-C1132 | CNSN1D104N10 | |
| X CONNECTOR A ASS | SY | C1102,C1118 | CKSRYB105K6R3 | _ |
| This assembly has no service part. | _ | C1104,C1108,C1115,C1122 | CKSYB105K25 | |
| | | RESISTORS | | |
| V CONNECTOR R 400 | SV. | R1116,R1122 | RS1/10S1003F | |
| X CONNECTOR B ASS | 7 | R1133,R1143-R1145 | RS1/10S100J | |
| This assembly has no service part. | | R1103,R1106,R1118,R1119,R1153 | RS1/10S2R2J | |
| | | R1136 | RS1/16S1202F | Е |
| 43 X DRIVE ASSY | | R1139 | RS1/16S3301F | |
| OTHERS | | R1130 | RS1/16S5601F | |
| 1002 CARD SPACER | AEC1957 | R1134 | RS1/16S8201F | |
| 1001 DRIVE SIRICON SHEET A | AEH1062 | R1113,R1128 | RS1MMF101J | |
| 1001 PLATE X | ANG2622 | VR1101-VR1104 | CCP1390 | |
| 1001 DRIVE HEATSINK A 1001 SCREW | ANH1613 BMZ30P080FZK | Other Resistors | RS1/16S###J | |
| 1001 SCHEW | DIVIZOUF UOUF ZR | | | |
| 1002 SCREW | PMB30P060FNI | [SUS BLOCK] | | |
| | | <u>SEMICONDUCTORS</u> | LIODI MANA | |
| [X LOGIC BLOCK] | | IC1202 IC1205 | HCPL-M611 NJM2872F05 | F |
| SEMICONDUCTORS | | IC1205 IC1203,IC1207 | STK795-510 | |
| IC1002 | TC74ACT540FT | IC1208 | TLP181(P-GR) | |
| | | IC1204,IC1206 | TND301S | |
| | | PDP-5004 | | 75 |
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| | Mark No. Description | on Part No. | | scription Part No. |
|---|---|---|---|--|
| Α | Q1207 Q1203 Q1302 Q1301 Q1205 | 2SC2412K 2SD1898 2SJ522 2SK2503 2SK2908-01S | CAPACITORS C1401,C1402 (22/315 C1404 C1405 C1409 C1403,C1407,C1408, | CEHAT101M16 CEHAT101M25 CEHAT331M16 |
| | Q1206,Q1208 Q1201 | DTC124EK HN1B04FU | C1406 | CKSRYF104Z50 |
| | D1212 D1211,D1213,D1216 D1201,D1207 | 1SS302 1SS355 EC10QS04 | RESISTORS R1405,R1406,R1408- R1420 R1403 | R1410,R1414 RS1/10S3602F RS1/16S1101F RS1/16S2702F |
| 5 | D1204,D1301 D1214 D1208 | EC11FS4 EC8FS6 UDZS5.6B | R1401,R1404 R1417 | RS1/16S4701F RS1/16S7500F |
| В | COILS AND FILTERS L1204,L1205 L1202 L1203,L1206 | ATH1112 LFEA100J LFEA470J | VR1401 (1k) Other Resistors PANEL SEN | CCP1390 RS1/16S###J |
| | CADACITODO | | SEMICONDUCTOR | |
| | CAPACITORS C1214-C1217,C1227-C1230 C1233 (0.12/250V) C1244 (0.1/250V) | ACE1163 ACE1169 ACE1170 | IC1072 IC1071 | MM1522XU MM3012XN |
| С | C1209 (0.1/630V) C1219,C1231 | ACG1092 ACH1359 | CAPACITORS C1075 C1074 | ACH1357 CKSRYB103K50 |
| C | C1224 C1301 C1203,C1207,C1210,C1220,C1 | | C1071,C1076 C1072,C1073 RESISTORS | CKSRYB104K16 CKSRYF105Z10 |
| | C1238,C1239 C1235 C1213,C1225,C1240,C1241,C1 | CEHAT470M25 CKSRYB102K50 243 CKSRYB104K16 | R1076,R1078 Other Resistors | RS1/16S1001F RS1/16S###J |
| _ | C1202,C1205,C1206,C1212,C1 | | 42 V DDIVE | ACCV |
| | RESISTORS | | 43 Y DRIVE OTHERS | ASSY |
| D | R1230 (2.2/ 1/2W) R1208 (10/ 1/2W) R1304 (560/ 1/2W) R1305 (1k/ 1/2W) R1301,R1302,R1314 | ACN1166 ACN1174 ACN1195 ACN1198 RS1/10S122J | 2002 CARD SPACEI 2001 DRIVE SIRICO 2001 PLATE Y 2001 DRIVE HEATS 2001 SCREW | N SHEET A AEH1062 ANG2557 |
| | R1226,R1251 R1235,R1236 Other Resistors | RS1MMF361J RS2MMF121J RS1/16S###J | 2002 SCREW | PMB30P060FNI |
| E | OTHERS KN1201-KN1205,KN1208,KN12 KN1210-KN1212 (GROUND F CN1201 12P CONNECTOR | | EY LOGIC BLOCK SEMICONDUCTOI IC2002 IC2001,IC2003 IC2005 IC2004 Q2001 | • |
| | SEMICONDUCTORS IC1404 IC1402 IC1401,IC1403 Q1401 | AN1431M MIP161 TLP181(P-GR) 2SA1037K | CAPACITORS C2001 C2010,C2011 C2002-C2006 | CEHAT470M16 CKSRYB104K16 CKSRYF104Z50 |
| F | Q1402 D1407,D1408 D1404 D1401,D1403 COILS AND FILTERS | 2SC2412K EC11FS2 EC8FS6 UDZS5.6B | RESISTORS R2018,R2019 R2002,R2004,R2013- R2005,R2006,R2012, Other Resistors | |
| | L1401 T1401 | ATH1110 ATK1153 | OTHERS CN2001 50P CONN | ECTOR AKM1201 |
| | 76 | PD | P-5004 | |

PDP-5004

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|---------------------------------------|-----------------------|--|--------------------|----|
| Mark No. Description | Part No. | Mark No. Description | Part No. | |
| | | L2306,L2307 | ATH1112 | |
| [Y RESONANCE BLOCK] | | L2304 | LFEA100J | |
| SEMICONDUCTORS | | L2308 | LFEA101J | |
| IC2211 | BA10393F | L2301,L2302,L2305 | LFEA470J | Α |
| IC2201,IC2202 | TND506MD | | | |
| Q2213 | 2SC2412K | CAPACITORS | | |
| Q2202,Q2203,Q2211,Q2212,Q2214 | 2SK3560 | C2309-C2312,C2326,C2327 | ACE1163 | |
| Q2205,Q2206,Q2208,Q2209 | 2SK3723 | C2329,C2330 (1.5/300V) | ACE1163 | |
| Q2200,Q2200,Q2200 | 2010720 | C2314 (0.047/250V) | ACE1165 | |
| Q2201,Q2204,Q2207,Q2210 | CPH5506 | C2302 (0.1/630V) | ACG1092 | _ |
| D2209,D2223 | 1SS302 | C2316,C2331 (300/280V) | ACH1359 | |
| D2228,D2229 | 1SS355 | , | | |
| D2202-D2205,D2207,D2208 | EC11FS4 | C2303 (22/315V) | ACH1361 | |
| D2213,D2214,D2216-D2219,D2222 | EC11FS4 | C2336 (220/100V) | ACH1393 | |
| DZZ 10,DZZ 14,DZZ 10 DZZ 13,DZZZZ | 20111 04 | C2306,C2334 | CEHAT221M25 | |
| D2226,D2227 | EC11FS4 | C2308,C2324,C2339,C2340 | CEHAT470M16 | |
| D2201,D2206,D2211,D2215,D2220 | TCU20A30 | C2304,C2320,C2338 | CEHAT470M25 | В |
| D2225 | TCU20A30 | ,,- | | |
| D2210,D2224 | UDZS16B | C2305,C2322,C2323,C2325,C2333 | CKSRYB104K16 | |
| 522 10,52227 | 0020100 | C2341 | CKSRYB104K16 | |
| COILS AND FILTERS | | C2301,C2307,C2328 | CKSRYF104Z50 | |
| | ATI 11110 | ,, | | |
| L2204 | ATH1119 | RESISTORS | | _ |
| L2202 | ATH1133 | R2332 (2.2,1/2W) | ACN1166 | |
| L2203,L2205 | ATH1134 | R2309 | RS1MMF132J | |
| L2201 | LFEA470J | R2310,R2311 | RS1MMF472J | |
| 2 A DA OLTO DO | | R2310,R2311 R2312-R2314,R2322,R2323 | RS3LMF100J | |
| CAPACITORS | | R2348,R2352,R2358,R2359 | RS3LMF1R8J | |
| C2212,C2213,C2226,C2227 (3.3/250V) | | 1 12070,1 12002,1 12000,172008 | I IOOLIVII II IOO | |
| C2211,C2224 (100p/630V) | ACG1104 | Other Resistors | RS1/16S###J | С |
| C2210,C2223 (0.1/630V) | ACG1108 | Other resistors | 1101/100###0 | |
| C2202,C2205,C2216,C2217 | CCSRCH331J50 | OTHERS | | |
| C2230,C2232,C2233,C2235 | CKSRYB104K16 | <u>OTHERS</u> | ***** | |
| | | KN2301-KN2305,KN2310,KN2312 | ANK-142 | |
| C2203,C2218 | CKSRYB105K6R3 | KN2314,KN2316 (GROUND PLATE) | ANK-142 | |
| C2201,C2208,C2215,C2219 | CKSYB105K25 | CN2301 11P CONNECTOR | B11B-EH | • |
| | | | | - |
| RESISTORS | | IV COAN BLOOK! | | |
| R2240,R2241 | RS1/10S1003F | [Y SCAN BLOCK] | | |
| R2244-R2247 | RS1/10S100J | <u>SEMICONDUCTORS</u> | | |
| R2204,R2205,R2220,R2221,R2253 | RS1/10S2R2J | IC2101,IC2103-IC2106,IC2108,IC2109 | HCPL-M611 | |
| R2234 | RS1/16S1202F | IC2102,IC2107 | TC74ACT540FT | |
| R2235 | RS1/16S3301F | | | D |
| | | COILS AND FILTERS | | |
| R2233 | RS1/16S5601F | L2101-L2103 | LFEA100J | |
| R2242 | RS1/16S8201F | | 000 | |
| R2215,R2230 | RS1MMF101J | <u>CAPACITORS</u> | | |
| VR2201-VR2204 (1k) | CCP1390 | C2104,C2111 (47/160V) | ACH1392 | |
| Other Resistors | RS1/16S###J | C2104,C2111 (47/160V) C2101,C2107,C2113 | CEHAT221M16 | • |
| | | | CKSRYB104K16 | |
| | | C2102,C2103,C2105,C2106 C2108-C2110,C2112,C2114 | CKSRYB104K16 | |
| Y SUS BLOCK] | | 02100-02110,02112,02114 | UNUNT D 104K 10 | |
| SEMICONDUCTORS | | DESISTORS | | |
| IC2302.IC2308 | HCPL-M611 | RESISTORS | DAD40470: | |
| IC2302,IC2308 | NJM2872F05 | R2121,R2128 | RAB4C472J | _ |
| IC2305 IC2303,IC2307 | STK795-511 | Other Resistors | RS1/16S###J | E |
| IC2303,IC2307 IC2301,IC2304,IC2309 | TND301S | OTHERS | | |
| Q2310 | 2SC2412K | <u>OTHERS</u> | | |
| پدی ۱ <i>۱</i> | 20024121\ | CN2101,CN2102 15P CONNECTOR | AKM1200 | |
| Q2303,Q2307 | 2SD1898 | | | |
| Q2301 Q2301 | 2SJ522 | [Y D-D CON BLOCK] | | |
| Q2302,Q2308,Q2312 | 2SK3325-Z | SEMICONDUCTORS | | |
| Q2302,Q2308,Q2312 Q2309 | 2SK3325-Z HN1B04FU | IC2410-IC2412 | AN1431M | _ |
| D2302 | 1SS302 | IC2406 | BA10358F | |
| DEJUE | 100002 | IC2401 | MIP0223SC | |
| D2310 | EC100804 | IC2402-IC2405,IC2407-IC2409 | TLP181(P-GR) | |
| D2319 | EC10QS04 | Q2402,Q2407 | 2SA1037K | |
| D2305 | EC11FS4 | QC+UC,QC+U1 | 20/100/IX | |
| D2301 | UDZS16B | Q2410 | 2SA1163 | F |
| D2306,D2318 | UDZS5.6B | Q2410 Q2417 | 2SA1163 2SA1535 | |
| 0011 0 AND 511 7550 | | Q2417 Q2411-Q2414,Q2416 | 2SC2412K | |
| COILS AND FILTERS | | QC+11-QC+14,QC410 | 200241ZN | |
| | | | | 77 |
| | | 2-5004 | | |
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| Mark No. Description | Part No. | Mark No. Description | Part No. |
| Q2405 | 2SC2713 | PCB PARTS LIST for Com | mon models |
| Q2403 | 2SD1664 | | |
| | | (PDP-5004, PDP-5014 and | PDP-4304, |
| Q2401,Q2404 | 2SD1898 | <u>PDP-4314 models)</u> | |
| Q2415 D2430 | HN1C01FU 1SS301 | | |
| D2430 D2410,D2419,D2436 | 1SS302 | RGB ASSY | |
| D2409,D2418 | 1SS355 | [REG BLOCK] | |
| 52 100,52 110 | 10000 | SEMICONDUCTORS | |
| D2404-D2407 | EC11FS2 | IC7411 | BD6522F |
| D2403,D2414 | EC11FS4 | C7412 | M5291FP |
| D2402 | EC8FS6 | IC7402 | MM1522XU |
| D2427 | RD91PA | IC7401 | MM3012XN |
| D2401 | U1ZB330 | IC7404 | NJM12904V |
| D2412,D2413,D2422 | UDZS15B | ⚠ IC7408, IC7409 | DO0ED711 |
| D2425,D2426 | UDZS27B | ⚠ IC7408, IC7409 ⚠ IC7405, IC7410 | PQ05DZ11 PQ20WZ11 |
| D2415 | UDZS33B | △ IC7406, IC7407 | PQ3DZ13 |
| D2432 | UDZS4.3B | IC7403 | TC74VHC08FT |
| D2423,D2431 | UDZS5.6B | Q7405 | 2SA1586 |
| | | | |
| COILS AND FILTERS | | Q7407, Q7408, Q7410, Q7411 | HN1A01FU |
| T2402 | ATK1156 | Q7404 | HN1C01FU |
| T2403 | ATK1157 | Q7401 | RN1901 |
| T2401 L2402 | ATK1158 | Q7409 D7408 | RN1902 1SS301 |
| L2402 L2401 | LFEA100J LFEA101J | D1700 | 100001 |
| L240 I | LI LATOTO | D7407, D7409-D7414 | 1SS355 |
| L2403 | LFEA470J | D7415, D7416 | EC11FS2 |
| | | | |
| <u>CAPACITORS</u> | | COILS AND FILTERS | |
| C2406 (100/160V) | ACH1360 | L7401 | ATH1125 |
| C2401 (22/315V) | ACH1361 | O A DA OLTO DO | |
| C2427 | CEHAT100M50 | CAPACITORS | |
| C2403 C2405,C2407,C2417 | CEHAT101M16 CEHAT101M25 | C7408 | ACH1357 |
| G2405,G2407,G2417 | CEHAI IUTWI25 | C7414, C7419, C7434, C7437 (100/25V) | ACH1374 |
| C2414 | CEHAT221M16 | C7447, C7450 (47microF/16V) | ACH1391 |
| C2410 | CEHAT221M25 | C7416, C7423, C7424, C7430 | ACH1394 |
| C2411 | CEHAT331M25 | (100microF/16V) | 7.0 |
| C2420 | CEHAT470M2A | C7418, C7421, C7426, C7432, C7445 | ACH1396 |
| C2409,C2419 | CKSRYB103K50 | (100microF/6.3V) | |
| | | C7452 (100microF/6.3V) | ACH1396 |
| C2402,C2412,C2413,C2423,C2425 | CKSRYB104K16 | C7403 (22microF/16V) | ACH1400 |
| C2431,C2432,C2434-C2436 | CKSRYB104K16 | C7428, C7429, C7448 | CCSRCH221J50 |
| C2441-C2443 C2415,C2421,C2428 | CKSRYB104K16 CKSRYB105K6R3 | C7440, C7459-C7466 | CKSRYB102K50 |
| C2415,C2421,C2426 C2404,C2408,C2416,C2418,C2426 | CKSRYF104Z50 | C7407, C7409, C7453-C7455 | CKSRYB103K50 |
| 0 .,000,00,00,00 | 2.13.11. 101200 | C7457, C7458 | CKSRYB103K50 |
| C2429 | CKSRYF104Z50 | C7436 | CKSRYB104K16 |
| | | C7446 | CKSRYB821K50 |
| RESISTORS | | C7413, C7435 | CKSRYF104Z50 |
| R2429 (180k,1/2W) | ACN1225 | C7402, C7410 | CKSRYF105Z10 |
| R2435,R2439 | RS1/10S2202F | 07404 07405 07444 0745 | 01/00/27/2 |
| R2402-R2404 | RS1/10S3902F | C7404-C7406, C7411, C7412, C7415 | CKSSYF104Z16 |
| R2442 | RS1/16S1201F | C7417, C7420, C7422, C7425, C7427 C7431, C7433, C7439, C7441-C7444 | CKSSYF104Z16 |
| R2468 | RS1/16S1202F | C7431, C7433, C7439, C7441-C7444 C7449, C7451 | CKSSYF104Z16 CKSSYF104Z16 |
| R2424 | RS1/16S2001F | , | 5 |
| R2420,R2427,R2438 | RS1/16S2201F | <u>RESISTORS</u> | |
| R2467 | RS1/16S3301F | R7402, R7405, R7417 | RAB4CQ101J |
| R2457-R2460 | RS1/16S4701F | R7426 | RAB4CQ103J |
| R2506 | RS3LMF151J | R7480 | RS1/10S1R5J |
| | | R7412, R7420, R7486 | RS1/16S1001F |
| VR2401,VR2402 (1k) | CCP1390 | R7437, R7439, R7467, R7469, R7476 | RS1/16S1002F |
| Other Resistors | RS1/16S###J | D7461 | D01/1001F01F |
| | | R7461 | RS1/16S1501F |
| OTHERS | | | |
| OTHERS | ANH161/ | R7422 | RS1/16S1800F |
| OTHERS 2401 HEATSINK 2401 SCREW | ANH1614 BBZ30P080FZK | | |

PDP-5004

| • | 5 | 6 | | | 7 | - | 8 | |
|---------------|--------------------------|-----------------|-------|------------------|---------------|------------------|--------------------|----|
| Mark No. | <u>Description</u> | Part No. | ļ | Mark No. | Des | <u>cription</u> | Part No. | |
| | | | | OTHERS | | | | |
| R7438 | | RS1/16S4700F | | K6401-K640 | 06 TEST PI | N | AKX9002 | |
| R7465 | | RS1/16S4702F | | CN6402 6P | PLUG | | KM200NA6 | |
| R7460 | | RS1/16S6201F | | | | | | Α |
| R7447 | | RS1/16S7500F | | | | | | |
| R7478 | | RS1/16S8201F | | [MAIN AD B | LOCK] | | | |
| | | | | SEMICONE | DUCTOR | S | | |
| Other Resisto | ors | RS1/16S###J | | IC6001 | | _ | CXA3516AR | |
| | | | | IC6002-IC60 | 008 | | TC74LCX541FT | |
| <u>OTHERS</u> | | | | Q6001 | | | 2SC4116 | • |
| CN7405 12P | PLUG | AKM1203 | | D6001 | | | 1SS355 | - |
| CN7401 15P | PLUG | AKM1232 | | 2000. | | | .00000 | |
| CN7410 50P | PLUG | AKM1270 | | COILS AND |) FII TER | 25 | | |
| | | | | L6001 | <i>-</i> | <u></u> | LCTAWR68J2520 | |
| | | | | L0001 | | | LO 1AVVI 10002320 | |
| [MAIN LPF B | LOCK] | | | CAPACITO | DC | | | _ |
| SEMICOND | UCTORS | | | | | 00000 00044 | 10114000 | В |
| IC6402 | | AN5870SB | | | | C6028, C6041 | ACH1396 | |
| IC6404 | | BA7078AF | | | 51, C6054 (| (100microF/6.3V) | | |
| IC6403 | | BA7657F | | C6020 | | | CCSRCH101J50 | |
| IC6401 | | SM5301BS | | C6011 | | | CCSRCH220J50 | |
| IC6407 | | TC74VHC08FT | | C6017 | | | CCSRCH331J50 | |
| 100-107 | | . 57 17110001 1 | | | | 00005 | 01/07/27 | |
| IC6405 | | TC74VHC125FT | | C6003, C60 | | | CKSRYB105K6R3 | • |
| Q6419-Q642 | 1 | 2SA1586 | | | | C6038, C6045 | CKSRYB105K6R3 | |
| Q6407, Q641 | | DTC124EUA | | C6062-C606 | | | CKSRYB471K50 | |
| · | 6, Q6408, Q6410, Q6412 | | | C6002, C60 | | | CKSSYF104Z16 | |
| D6404 | 0, 90400, 90410, 90412 | 1SS302 | | C6012-C601 | 16, C6021-0 | 26023 | CKSSYF104Z16 | |
| D0404 | | 100002 | | | | | | |
| COILS AND | EILTEDS | | | C6026, C60 | | | CKSSYF104Z16 | С |
| | <u>FILI ENS</u> | I OTAMADZ 10500 | | | | C6040, C6042 | CKSSYF104Z16 | |
| L6401 | | LCTAW4R7J2520 | | | | C6052, C6053 | CKSSYF104Z16 | |
| L6402 | | LCTAWR68J2520 | | C6055-C606 | 61 | | CKSSYF104Z16 | |
| 0.4.04.04.00 | • | | | | | | | |
| CAPACITOF | | | | RESISTOR | <u>S</u> | | | |
| | 6, C6437, C6462, C6469 | | | R6001, R60 | 04, R6013, | R6014 | RAB4CQ100J | |
| | | ACH1391 | | R6020, R60 | 21, R6024, | R6027, R6033 | RAB4CQ100J | _ |
| C6431 (47m) | , | ACH1391 | | R6038, R60 | 44, R6054 | | RAB4CQ100J | |
| C6416, C641 | 7, C6424 (100microF/16V) | ACH1394 | | R6073-R608 | 85 | | RAB4CQ330J | |
| C6433 (10mi | icroF/16V) | ACH1399 | | R6023 | | | RN1/16SE3001D | |
| | | | | | | | | |
| C6439 (22mi | icroF/16V) | ACH1400 | | R6018 | | | RS1/16S2201F | |
| C6445 | | CCSRCH151J50 | | R6016 | | | RS1/16S2701F | D |
| C6435, C646 | 7, C6468 | CCSRCH470J50 | | R6019 | | | RS1/16S3301F | |
| C6401, C640 | 3, C6404, C6414, C6415 | CKSRYB103K50 | | Other Resist | tors | | RS1/16S###J | |
| C6423, C642 | 9, C6430, C6432, C6438 | CKSRYB103K50 | | | | | | |
| | | | | OTHERS | | | | |
| C6446, C644 | 9, C6451, C6454, C6456 | CKSRYB103K50 | | | 7 K6010-K | 6013 TEST PIN | ΔΚΧ9002 | |
| C6459, C646 | 1, C6470-C6476 | CKSRYB103K50 | | 100001-10000 | 37, 100 TO-10 | .0013 12311111 | AINAGUUZ | |
| C6463 | | CKSRYB104K25 | | | | | | _ |
| C6408, C641 | 1, C6412, C6421, C6455 | CKSRYB105K6R3 | | [SUB LPF & | AD BLOO | ואכ | | |
| C6457, C646 | 0 | CKSRYB105K6R3 | | - | | • | | |
| | | | | SEMICONE | DUCTOR | <u>5</u> | | |
| C6458 | | CKSRYB471K50 | | IC6602 | | | AD9883AKST-110 | |
| C6443 | | CKSRYB474K10 | | IC6604 | | | BA7078AF | |
| C6442 | | CKSRYB562K50 | | IC6601 | | | SM5301BS | E |
| C6407, C641 | 0, C6413, C6418-C6420 | CKSSYF104Z16 | | IC6608-IC66 | 614 | | TC74LCX541FT | |
| | 6, C6434, C6440, C6441 | CKSSYF104Z16 | | IC6605 | | | TC74VHC08FT | |
| -, | . , | | | | | | | |
| C6444. C644 | 7, C6448, C6450 | CKSSYF104Z16 | | IC6603, IC6 | | | TC74VHC125FT | |
| C6452, C645 | · | CKSSYF104Z16 | | Q6603, Q66 | 604 | | DTC124EUA | |
| | | | | Q6605 | | | HN1B04FU | • |
| RESISTORS | 3 | | | | | | | |
| R6489 | <u> </u> | RAB4CQ470J | | COILS AND |) FILTER | <u>IS</u> | | |
| R6422 | | RS1/16S1101F | | F6601 | _ | | ATF1194 | |
| R6526-R6528 | R | RS1/16S2200F | | L6701 | | | LCTAWR68J2520 | |
| | | | | - | | | | |
| R6428, R642 | | RS1/16S3000F | | CAPACITO | RS | | | |
| R6547-R6549 | J | RS1/16S75R0F | | C6635-C663 | | | ACH1357 | F |
| Other Deet | 240 | DC1/16C### I | | C6633 (10n | , | | ACH1357 ACH1399 | |
| Other Resisto | 15 | RS1/16S###J | | ` | 1110101/101) | | | |
| | | | | C6644 C6638 | | | CKSPVP102K50 | |
| | | | | U0030 | | | CKSRYB103K50 | 70 |
| | | | PDP-5 | 004 | | | | 79 |
| | 5 | 6 | | | 7 | | 8 | _ |

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|---|----------------------------------|----------------------------|-------------------------------------|----------------|
| | Mark No. Description | Part No. | Mark No. Description | Part No. |
| | • | | • | rait No. |
| | C6604, C6624 | CKSRYB104K16 | RESISTORS | |
| | | | R5816-R5825, R5827, R5835, R5849 | RAB4CQ100J |
| | C6648 | CKSRYB104K25 | | |
| | C6608, C6611, C6612, C6621 | CKSRYB105K6R3 | R5852, R5854, R5856, R5858, R5860 | RAB4CQ100J |
| Α | | | R5868-R5871, R5877 | RAB4CQ100J |
| | C6630-C6632 | CKSRYB105K6R3 | R5802-R5808, R5812-R5814, R5831 | RAB4CQ103J |
| | C6646, C6656-C6661 | CKSRYB471K50 | R5837, R5844, R5883 | RAB4CQ103J |
| | C6609, C6614, C6623 | CKSRYB473K16 | , , | |
| | | | R5845, R5850, R5851, R5853, R5855 | RAB4CQ470J |
| | C6642 | CKSRYB474K10 | R5857, R5859, R5861-R5863, R5876 | RAB4CQ470J |
| | C6641 | CKSRYB562K50 | ,,, | |
| | C6602 | CKSRYB822K50 | Other Resistors | RS1/16S###J |
| | | | | |
| | C6601 | CKSRYB823K16 | <u>OTHERS</u> | |
| | C6605-C6607, C6610, C6613 | CKSSYF104Z16 | X5801 CERAMIC RESONATOR | ASS1169 |
| | | | 7,0001 0218 44110 1120014 11011 | 71001100 |
| | C6615-C6620, C6625-C6629, C6634 | CKSSYF104Z16 | | |
| | C6639, C6643, C6645, C6647 | CKSSYF104Z16 | | |
| В | C6649-C6655 | CKSSYF104Z16 | [IC2 BLOCK] | |
| _ | C0049-C0033 | CN3311104210 | SEMICONDUCTORS | |
| | | | IC7001, IC7002 | IC42S32200-7TG |
| | <u>RESISTORS</u> | | IC7004 | PE5362A |
| | R6699-R6710, R6723-R6728 | RAB4CQ0R0J | | |
| | R6729-R6734 | RAB4CQ101J | IC7003 | TC74LCX125FT |
| | R6608, R6613, R6621, R6627 | RAB4CQ470J | | |
| | | RAB4CQ470J | COILS AND FILTERS | |
| | R6643, R6644, R6667-R6672 | | F7001, F7002 EMI FILTER | ATF1194 |
| | R6676-R6678, R6681-R6685 | RAB4CQ470J | 1 7001,1 7002 EIVII 1 IEI EI 1 | All 1134 |
| | | | 0.1.7.1.017.0.7.0 | |
| | R6612, R6619, R6620 | RS1/16S1000F | <u>CAPACITORS</u> | |
| | R6625 | RS1/16S1101F | C7029, C7041 (100microF/6.3V) | ACH1396 |
| | R6607, R6611, R6626 | RS1/16S1300F | C7065 | CCSRCH100D50 |
| | R6601 | RS1/16S2701F | C7066-C7068 | CCSRCH221J50 |
| С | | | C7001-C7024, C7026-C7028 | CKSSYF104Z16 |
| · | Other Resistors | RS1/16S###J | | |
| | | | C7032-C7040, C7042-C7063 | CKSSYF104Z16 |
| | <u>OTHERS</u> | | | |
| | K6601-K6607 TEST PIN | AKX9002 | C7031 | DCH1165 |
| | | | | |
| | | | RESISTORS | |
| | IDUO OWA DI OOKI | | R7034 | RAB4CQ470J |
| | [BUS SW1 BLOCK] | | | |
| | <u>SEMICONDUCTORS</u> | | R7027, R7037 | RS1/16SS0R0J |
| | IC5701 | PD6435A | R7023, R7035, R7036 | RS1/16SS101J |
| | | | R7001, R7008 | RS1/16SS102J |
| | CAPACITORS | | R7002- R7004, R7024 | RS1/16SS103J |
| | | | | |
| _ | C5701 (47microF/16V) | ACH1391 | R7006, R7009, R7012 | RS1/16SS220J |
| D | C5709, C5710 | CCSRCH150J50 | R7011 | RS1/16SS820J |
| | C5721-C5737 | CKSRYB103K50 | Other Resistors | RS1/16S###J |
| | C5702-C5708, C5711, C5712 | CKSSYF104Z16 | Other resistors | 110 1/100πππ0 |
| | C5714-C5718 | CKSSYF104Z16 | 071170 | |
| | | | <u>OTHERS</u> | |
| | DECICTORS | | K7001-K7003 TEST PIN | AKX9002 |
| _ | RESISTORS | D.D.(00): | X7001 (85MHz) | ASS1174 |
| | R5703-R5706, R5708-R5712, R5714 | RAB4CQ100J | , , | |
| | R5717, R5721, R5735, R5739-R5750 | RAB4CQ100J | | |
| | R5755, R5756, R5762, R5763 | RAB4CQ100J | [IC3 BLOCK] | |
| | R5768-R5771 | RAB4CQ100J | | |
| | R5728-R5734, R5782-R5787 | RAB4CQ103J | <u>SEMICONDUCTORS</u> | |
| | | | IC7102 | 24LC02B(I)SN |
| | Other Pecietors | DC1/16C### I | IC7101 | PD5855A |
| Ε | Other Resistors | RS1/16S###J | | |
| | | | COIL & AND EILTERS | |
| | <u>OTHERS</u> | | COILS AND FILTERS | |
| | CN5701 120P PCI BUS SOCKET | AKP1220 | F7101, F7102 | ATF1194 |
| | X5701 CERAMIC RESONATOR | ASS1169 | | |
| | ACTOR GENERAL TREGORATION | | CAPACITORS | |
| | | | C7103, C7120, C7138 (100microF/6.3V |) ΔCH1306 |
| | IDUO OWO DI COICI | | • | , |
| | [BUS SW2 BLOCK] | | C7141 | CCSRCH100D50 |
| | SEMICONDUCTORS | | C7101, C7102, C7104-C7119 | CKSSYF104Z16 |
| | IC5801 | PD6435A | C7121-C7137, C7139, C7140, C7142 | CKSSYF104Z16 |
| | 100001 | . 50-00/ | | |
| | 0.4.04.04.000 | | RESISTORS | |
| | <u>CAPACITORS</u> | | | DAD4COOOL |
| _ | C5801 (47microF/16V) | ACH1391 | R7102, R7105-R7108, R7110, R7111 | RAB4CQ330J |
| F | C5809, C5810 | CCSRCH150J50 | R7128, R7129, R7132, R7133 | RAB4CQ330J |
| | C5802-C5808, C5811, C5812 | CKSSYF104Z16 | R7136, R7137 | RAB4CQ330J |
| | C5814-C5818 | CKSSYF104Z16 | R7154 | RAB4CQ470J |
| | 33017 03010 | 5.0011 10 1 210 | R7125, R7142 | RS1/16SS0R0J |
| | | | | |
| 8 | 30 | PDP-500 ² | 4 | |

PDP-5004

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| Mark No. Description | Part No. | Mark No. Description | Part No. |
| R7120, R7150, R7151 | RS1/16SS101J | R7228, R7230, R7249, R7251, R7262 | RS1/16SS470J |
| R7101 | RS1/16SS103J | R7263, R7278, R7279, R7310, R7315 | RS1/16SS470J |
| R7103, R7104, R7112, R7114, R7122 | | R7316, R7318, R7339 | RS1/16SS470J |
| R7126, R7127, R7130, R7131, R7134 | | Other Resistors | RS1/16S###J A |
| R7135, R7138, R7139, R7152 | RS1/16SS330J | OTHERS | |
| R7149 | RS1/16SS472J | CN7201 8P PLUG | AKM1225 |
| Other Resistors | RS1/16S###J | X7201 CERAMIC RESONATOR | ASS1170 |
| | | CN7204 3P TOP POST | B3B-EH |
| OTHERS | A1/A44040 | | |
| CN7101 114P FFC CONNECTOR K7101, K7102 TEST PIN | AKM1216 AKX9002 | | |
| · | 711010002 | AV I/O ASSY | |
| [IC3 FLASH BLOCK] | | [AV I/O BLOCK] | |
| <u>SEMICONDUCTORS</u> | | SEMICONDUCTORS | |
| IC7152 | MBM29PL3200BE70PFV | IC7609 | 24LCS21A B |
| | | IC7610 | AN5870SB |
| CAPACITORS | | IC7602, IC7606, IC7607, IC7613 | BA4558F-HT |
| C7152, C7153, C7155-C7158, C7160 | CKSSYF104Z16 | IC7603 | BD3869AF |
| C7162 | CKSSYF104Z16 | IC7604 | NJM78L09UA |
| DECICTORS | | | |
| RESISTORS | D04/40004701 | IC7612 | PCM1742KE |
| R7155- R7160 | RS1/16SS472J | IC7601 | 1C4032DF1 |
| | | IC7611 | TC74VHCT541AFT |
| 744 IN 1100M DI 001/3 | | Q7602, Q7603, Q7606, Q7611, Q7612 | |
| [MAIN UCOM BLOCK] | | Q7604, Q7605, Q7610 | 2SC4116 |
| <u>SEMICONDUCTORS</u> | | 07607 07600 | DTC104EUA |
| IC7205 | 24LC128(I)SN | Q7607, Q7608 | DTC124EUA |
| IC7201, IC7204 | 74VHCT00AMTC | Q7601 | RN1902 C |
| IC7207 | MB91F355APMTGE1 | Q7609 | SM6K2 |
| IC7210 | PST3612UR | D7601, D7614 | 1SS301 |
| IC7203, IC7206 | PST3628UR | D7606-D7608, D7610-D7613 | 1SS302 |
| IC7209 | TC74VHC08FT | D7619 | 1SS355 |
| IC7202 | TC74VHC125FT | D7602, D7603, D7605, D7609 | UDZS5R6(B) |
| IC7208 | TC74VHCT541AFT | D7604 | UDZS6R8(B) |
| Q7201 | 2SJ461A | | |
| Q7202 | DTC124EUA | COILS AND FILTERS | |
| | | F7601 | ATF1194 |
| D7202 | 1SS355 | | |
| D7203 | SML-310MT | <u>CAPACITORS</u> | 5 |
| | | C7659, C7669 | CCSRCH181J50 D |
| CAPACITORS | | C7673, C7674 | CCSRCH220J50 |
| C7205, C7236 (47microF/16V) | ACH1391 | C7658, C7672 | CCSRCH681J50 |
| C7143, C7203 | CCSRCH220J50 | C7676, C7678, C7680, C7682 | CCSSCH221J50 |
| C7213, C7218 | CCSRCH7R0D50 | C7646, C7651-C7653 | CEHAT100M50 |
| C7248-C7249 | CKSRYB102K50 | | |
| C7235, C7245 | CKSRYB103K50 | C7654 | CEHAT101M10 |
| C7226, C7237 | CKSRYB104K16 | C7665, C7670 | CEHAT101M16 |
| | | C7623, C7648 | CEHAT220M50 |
| C7230, C7242 | CKSRYB104K25 | C7638, C7643, C7645, C7705 | CEHAT221M6R3 |
| C7216 | CKSRYB472K50 | C7714, C7716, C7718 | CEHAT331M10 |
| C7201, C7202, C7209-C7212 | CKSSYF104Z16 | | |
| C7214, C7215, C7219-C7225 | CKSSYF104Z16 | C7619, C7635, C7637, C7697 | CEHAT470M16 E |
| C7227-C7229, C7232-C7234, C7238 | CKSSYF104Z16 | C7601, C7602, C7609, C7610, C7614 | CKSQYB225K10 |
| | | C7616, C7629, C7631, C7632, C7639 | CKSQYB225K10 |
| C7240, C7241, C7243, C7244 | CKSSYF104Z16 | C7627, C7628, C7640, C7650 | CKSRYB102K50 |
| C7246, C7247 | CKSSYF104Z16 | C7660, C7661, C7666, C7683, C7685 | CKSRYB103K50 |
| RESISTORS | | C7687, C7712, C7713, C7715, C7717 | CKSRYB103K50 |
| R7231 | RAB4CQ0R0J | C7603, C7620, C7662, C7663, C7667 | CKSRYB105K10 |
| R7229 | RAB4CQ101J | C7684, C7686, C7688 | CKSRYB105K10 |
| R7256 | RAB4CQ101J | C7633, C7656 | CKSRYB471K50 |
| R7218, R7219, R7284-R7286, R7301 | | C7675, C7677, C7679, C7681 | CKSSYB102K50 |
| R7309, R7311-R7314, R7317 | RAB4CQ470J | | |
| | | C7615, C7617, C7618, C7624-C7626 | CKSSYF104Z16 |
| R7201 | RAB4CQ472J | C7630, C7634, C7636, C7641, C7642 | CKSSYF104Z16 F |
| R7212, R7232 | RS1/16S1202F | C7644, C7649, C7655, C7657, C7664 | CKSSYF104Z16 |
| R7208, R7209, R7216, R7217 | RS1/16SS0R0J | C7668, C7671, C7704, C7706 | CKSSYF104Z16 |
| R7207, R7221- R7223, R7225, R7226 | 8 RS1/16SS470J | C7708-C7711 | CKSSYF104Z16 |
| | | DDB 5004 | 81 |
| 5 = | 6 | PDP-5004 7 | 8 • |
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| | Mark No. Description | | Mark No. | Description | Part No. |
| | RESISTORS | <u>- 4</u> | | | <u> </u> |
| | R7653, R7654, R7673, R7674 | RS1/16S1002F | COILS AND | FILTERS | |
| | R7712, R7725 | RS1/16S2201F | F6804-F6806 | | ATF1194 |
| ١. | R7699-R7701 | RS1/16S27R0F | F6807, F680 | 8 | ATF1211 |
| | R7709-R7711 | RS1/16S75R0F | L6804 | | ATH1184 |
| | Other Resistors | RS1/16S###J | | | |
| | OTHERS | | CAPACITOR | <u>RS</u> | 0000011004150 |
| | OTHERS | AVD1041 | C6923 | F 06067 06060 | CCSRCH221J50 |
| | JA7606 15P D-SUB SOCKET K7601. K7602 TEST PIN | AKP1241 AKX9002 | | 5, C6867, C6869 4, C6879, C6881, C6884 | CCSSCH101J50 CCSSCH101J50 |
| | JA7601, JA7602 JACK | DKB1031 | | 8, C6892, C6908, C6910 | CCSSCH101J50 |
| | CN7601 PLUG(15P) | KM200NA15 | | 4, C6917, C6920 | CCSSCH101J50 |
| | ` , | | | | |
| | | | C6921 | | CCSSCH221J50 |
| | [IF UCOM BLOCK] | | C6891 C6860 | | CEHAT100M50 CEHAT101M10 |
| 3 | SEMICONDUCTORS | 0.41.004.0 | C6823, C682 | 5 | CEHAT220M50 |
| | IC8705 IC8702 | 24LC01B | C6902 | .0 | CEHAT221M16 |
| | IC8702 IC8703 | HD64F3687FP PST9230N | 3332 | | 0 |
| | IC8701 | TC74VHC08FT | C6878, C691 | 6, C6922 | CEHAT221M6R3 |
| | IC8704 | TC7W126FU | C6877 | | CEHAT470M16 |
| _ | | | C6905 | 4 00075 00000 | CEHAT471M10 |
| | Q8701 | 2SJ461A | C6859, C686 C6903, C690 | 1, C6875, C6896 | CKSRYB471K50 CKSRYF104Z16 |
| | Q8708 | DTA124EUA | 00903, 0090 | 4, 00900 | CK3H11104Z10 |
| | Q8702 | DTC124EUA | C6893 | | CKSSYB473K16 |
| | COILS AND FILTERS | | C6890 | | CKSSYF103Z50 |
| | L8703 | LCTAW221J3225 | | 1, C6842, C6858 | CKSSYF104Z16 |
|) | L8702 | LCTAWR68J2520 | | 3, C6866, C6868 | CKSSYF104Z16 |
| | | | C6870-C687 | 2, C6876, C6880 | CKSSYF104Z16 |
| | CAPACITORS | | C6882, C688 | 3, C6885, C6887, C6889 | CKSSYF104Z16 |
| | C8706, C8707 | CCSRCH120J50 | | 7, C6909, C6911, C6913 | CKSSYF104Z16 |
| | C8708 | CEHAT470M16 | C6915, C691 | 8, C6919 | CKSSYF104Z16 |
| | C8704, C8718 C8717, C8720 | CEHAT471M6R3 CKSRYB103K50 | C6894 | | DCH1161 |
| | C8722, C8724 | CKSRYB471K50 | DECICEODO | | |
| | 33.22, 33.2. | 01.011.217.11.00 | RESISTORS | | DAD4004701 |
| | C8709 | CKSRYB472K50 | | 3, R6926, R6933, R6935 8, R6953, R6960 | RAB4CQ470J |
| | C8701-C8703, C8705, C8711-C87 | | | 4, R6927, R6934, R6936 | RAB4CQ680J |
| | C8716, C8719, C8721, C8725 | CKSSYF104Z16 | R6954, R696 | | RAB4CQ680J |
|) | RESISTORS | | R6831 | | RD1/2LMF1R0J |
| | R8719, R8720, R8723, R8724, R8 | 726 RAB4C101J | Doooo | | D04/4000000E |
| | R8704 | RAB4C103J | R6932 R6952 | | RS1/16S3900F RS1/16S3901F |
| | R8736 | RS1/16S1302F | R6962-R696 | 7 | RS1/16S75R0F |
| | Other Resistors | RS1/16S###J | R6950 | • | RS1/16S91R0F |
| 1 | OTHERS | | Other Resisto | ors | RS1/16S###J |
| | OTHERS | AKM1225 | 0711500 | | |
| | CN8701 PLUG 8-P K8701-K8703 TEST PIN | AKX9002 | OTHERS | U 001 NEOTOD | ALCDAGGG |
| | X8702 CERAMIC RESONATOR | ASS1168 | JA6802 HDIV | II CONNECTOR | AKP1232 |
| | X8701 CRYSTAL OSCILLATOR | ASS1172 | Other Resistors | ; | |
| | CN8704 PLUG(6P) | KM200NA6 | | | |
| • | | | DECICTOR | | |
| | [HDMI BLOCK] | | RESISTORS Other Resistor | | RS1/16S###J |
| | SEMICONDUCTORS | | Other nesist | 015 | n31/103###J |
| | IC6806 | 24LC02B(I)SN | | | |
| | IC6809 | SI-8033JD | AUDIO | O AMP ASSY | |
| | IC6810 IC6802 | SII9993CTG100 TC74HC4538AFT | SEMICOND | UCTORS | |
| | IC6804, IC6805, IC6807, IC6811 | TC74LCX541FT | IC5002 | | BA4558F-HT |
| | 100004, 100000, 100007, 100011 | 107420704111 | ⚠IC5003 | | LA4625 |
| | Q6813 | RN1902 | <u></u> C5004 | | PQ12DZ11 |
| | Q6816 | SM6K2 | ⚠IC5001 | 7 05000 | SI-8120S |
| | D6806, D6809, D6813 | 1SS301 | Q5005, Q500 | 77, Q5008 | 2SA1586 |
| | D6810, D6812 | 1SS302 | Q5001, Q500 |)9 | 2SC4116 |
| | D6816 | D1FM3 | Q5011, Q501 | | 2SD2114K |
| | D6811 | UDZS6R8(B) | Q5013 | | DTA124EUA |
| ۶ | 82 | | P-5004 | | |
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| Mark No. | Description | Part No. | <u>IV</u> | lark No. | | Description | Part No. | |
| D5003 | • | 1SS301 | _ | D4901 | | | 1SS355 | |
| D5001 | | 1SS302 | , | A DACITO |)DC | | | |
| D5002 | | 1SS355 | _ | CAPACITO | <u> </u> | | CCCDCL1101 IE0 | Α |
| D5002 | | RK46 | | C4905 C4901 | | | CCSRCH101J50 CEAT470M16 | A |
| 20000 | | 11110 | | C4901 C4903 | | | CKSRYB102K50 | |
| COILS AND | FILTERS | | | C4907 | | | CKSRYB103K50 | |
| L5002 | | ATH1159 | | C4902, C4 | 904 | | CKSSYF104Z16 | |
| | | | | , | | | | |
| CAPACITOF | <u>RS</u> | | <u>F</u> | RESISTOR | <u> </u> | | | • |
| C5049, C508 | 30 | CEHAT101M16 | | Other Resi | stors | | RS1/16S###J | _ |
| C5045 | | CEHAT220M50 | | | | | | |
| C5010 | | CEHAT221M10 | <u>(</u> | <u>OTHERS</u> | | | | |
| C5022 | 10. 05004 | CEHAT222M16 | | U4901 RE | MOTE | RECEIVER UNIT | RPM7240-H4 | |
| C5047, C504 | 18, C5081 | CEHAT2R2M50 | | | | | | |
| C5050 | | CEHAT330M25 | | 00.7 | | | | В |
| C5005-C5008 | 8 C5016 | CEHAT470M16 | | | | MINAL L ASS | Υ | |
| C5051 | 0, 00010 | CEHATR47M50 | <u> </u> | <u>SEMICON</u> | DUC | <u>TORS</u> | | |
| C5019, C502 | 20 | CEHAZL471M25 | | IC9752 | | | MM1522XU | |
| | 04, C5017, C5027 | CKSRYB103K50 | | IC9751 | | | MM3012XN | |
| | | | | | | | | |
| C5055-C5058 | | CKSRYB104K25 | <u>(</u> | COILS AN | | <u>LTERS</u> | | |
| C5043, C504 | 14 | CKSRYB222K50 | | L9701, L97 | 702 | | ATF1206 | |
| DEGIOTORO | | | , | 0 4 D4 OIT | 200 | | | |
| RESISTORS | | | <u>(</u> | CAPACITO | | | | |
| R5049-R5052 | | RD1/4MUF2R2J | | C9703, C9 | | 0744 | CCSRCH101J50 | |
| R5053-R5056 | 6 | RS1/10S5R6J | | C9706, C9 | | 9711 | CCSRCH221J50 | |
| R5001 | 0 DE000 DE040 | RS1/16S1502F | | C9753, C9 | 756 | | CEAT470M16 | С |
| | 06, R5009, R5010 04, R5007, R5008 | RS1/16S3301F RS1/16S6801F | | C9754 C9752, C9 | 755 | | CKSRYB103K50 CKSRYB105K10 | |
| n3003, n300 | 14, N3007, N3006 | N31/1030001F | | C9752, C9 | 755 | | CKSHIDIOSKIU | |
| Other Resisto | ors | RS1/16S###J | | C9705 | | | CKSRYB332K50 | |
| 0 11 10 1 1 100 10 10 | | | | C9707 | | | CKSRYF473Z50 | |
| OTHERS | | | | C9751, C9 | 757 | | CKSSYF104Z16 | |
| CN5002 PLU | JG(6P) | KM200NA6 | | | | | | |
| 5001 SCREV | | VBB30P100FNI | F | RESISTOR | RS | | | |
| KN5001, KN5 | | VNF1084 | | R9703, R9 | 704 | | RD1/2MMF100J | |
| WRAP | PPING TERMINAL | | | R9757, R9 | | | RS1/16S1001F | |
| | | | | Other Resi | stors | | RS1/16S###J | |
| | | | | | | | | |
| VIDEO | O SLOT I/F ASS | Y | <u>(</u> | <u>OTHERS</u> | | | | D |
| SEMICOND | UCTORS | | | | | ER TERMINAL 2-P | AKE1041 | |
| IC8952 | | 24LC01B | | CN9702 P | LUG(6 | P) | KM200NA6 | |
| Q8953 | | DTC124EUA | | | | | | |
| D8951, D895 | 52 | UDZS5.6B | | 00.7 | | AINIAI DAGG | | |
| | | | | | | MINAL R ASS | ΣΥ | _ |
| COILS AND | FILTERS | | <u>(</u> | COILS AN | ID FI | <u>LTERS</u> | | |
| L8951 | | ATX1008 | | L9801, L98 | 302 | | ATF1206 | |
| 0.4.04.017.05 | | | | 0 4 D4 OIT | | | | |
| CAPACITOR | <u> 15</u> | | <u>(</u> | CAPACITO | | | | |
| C8952 | | CEHAT470M16 | | C9804, C9 | | 0011 | CCSRCH101J50 | |
| C8953 | | CKSSYF104Z16 | | C9801, C9 | 808-C | 9811 | CCSRCH221J50 | Е |
| DECICTORS | | | | C9806 C9807 | | | CKSRYB332K50 CKSRYF473Z50 | _ |
| RESISTORS | | DO4/400#### | | C9607 | | | UNSN17473230 | |
| Other Resisto | ors | RS1/16S###J | | RESISTOR | 25 | | | |
| OTHERS | | | - | R9803, R9 | | | RD1/2MMF100J | |
| | /FT100 D | AI/D1010 | | Other Resi | | | RS1/16S###J | |
| CN8953 SOK CN8954 PCI | | AKP1219 AKP1251 | | C.1101 1 1031 | 3.013 | | 1.0 1, 100mm | |
| CN8954 PCR CN8955 SOK | | AKP1251 AKP1253 | (| OTHERS | | | | |
| | 8952 GROUND PLATE | ANK1664 | _ | | ΡΕΔΚΙ | ER TERMINAL 2-P | AKE1041 | |
| CN8952 L-PL | | KM200NA11L | | 01 N3002 3 | . rul/[| | AIL IUTI | |
| , | - (| | | | | | | |
| | | | | AV I | O IF | ASSY | | |
| IR REC | CEIVE ASSY | | (| OTHERS | | = # = | | F |
| SEMICOND | | | _ | CN2101 P | CISOr | FT120-P | AKP1220 | • |
| Q4901 | | 2SC4116 | | OINZ IUI F | JIJON | | / II I I I I I I I I I I I I I I I I I | |
| D4902 | | 1SS302 | | | | | | |
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| Mark No. Description | Part No. | Mark No. Description | Part No. |
| COMM SLOT I/F ASS | | D9004 | 1SS355 |
| SEMICONDUCTORS | | COILS AND FILTERS | |
| IC8901 | TC74VHC00FT | F9001-F9006 | DTL1069 |
| Q8902 D8901, D8902 | 2SC4116 1SS355 | | |
| D0301, D0302 | 100000 | <u>CAPACITORS</u> | |
| COILS AND FILTERS | | C9006-C9008 | CCSRCH101J50 |
| L8901 | LCTAW221J3225 | C9005 C9001-C9003 | CEAT470M16 CKSRYB472K50 |
| | | C9004 | CKSSYF104Z16 |
| <u>CAPACITORS</u> | 01(05)(5404)(05 | 55551 | 01.0011 101210 |
| C8902 C8901 | CKSRYB104K25 CKSSYF104Z16 | | |
| C0901 | CR3311104210 | <u>RESISTORS</u> | |
| RESISTORS | | R9008 | RAB4C182J |
| Other Resistors | RS1/16S###J | Other Resistors | RS1/16S###J |
| | | OTHERS | |
| <u>OTHERS</u> | | CN9002 6P FFC CONNECTOR | AKM1208 |
| CN8904 EDGE CARD CONN CN8902 L-PLUG (10P) | AKP1252 KM200NA10L | X9001 CERALOCK | ASS1162 |
| CN8902 L-PLUG (10P) CN8903 L-PLUG (11P) | KM200NA11L | CN9001 L-PLUG (3P) | KM200NA3L |
| CN8905 L-PLUG (6P) | KM200NA6L | | |
| , | | FRONT KEY ASSY | |
| | | | |
| LED ASSY | | SWITCHES AND RELAYS S9401-S9406 | ASG1088 |
| <u>SEMICONDUCTORS</u> | | 39401-39400 | A3G1000 |
| Q9652 | DTC143EUA | OTHERS | |
| Q9651 D9652 | RN2901 SML-310MT | CN9400 6P FFC CONNECTOR | AKM1208 |
| D9651 | SML-310WT | | |
| 2000. | S2 | | |
| <u>CAPACITORS</u> | | | |
| C9652-C9655 | CCSRCH101J50 | DIGITAL VIDEO ASSY | <i>,</i> |
| C9656 | CKSRYB103K50 CKSSYF104Z16 | [DIGITAL IF BLOCK] | |
| C9651 | CK551F104Z16 | COILS AND FILTERS | |
| RESISTORS | | F5001, F5002, F5004, F5005 | ATF1194 |
| Other Resistors | RS1/16S###J | ,, | |
| | | <u>RESISTORS</u> | |
| | | R5101-R5115, R5131 | RAB4C470J |
| COMM SLOT ASSY | | Other Resistors | RS1/16S###J |
| SEMICONDUCTORS | | OTHERS | |
| IC9451 | SP3232ECY | CN5001 114P FFC CONNECTOR | AKM1216 |
| IC9454 IC9455, IC9456 | TC74VHC00FT TC74VHC125FT | CN5002 PH 10P CONNECTOR | AKM1281 |
| 100400, 100400 | 107411012311 | K5002-K5004, K5007 TEST PIN | AKX9002 |
| <u>CAPACITORS</u> | | | |
| C9455 | CEJQ470M6R3 | [MODULE UCOM BLOCK] | |
| C9452, C9473, C9475, C9477 | CKSRYB471K50 | SEMICONDUCTORS | |
| C9451, C9453, C9454, C9457, C9458 C9472, C9474, C9476 | CKSSYF104Z16 CKSSYF104Z16 | IC5206 | 24LC04B(I)SN |
| 00472, 00474, 00470 | 010011104210 | IC5201 | M30626FHPGP-P |
| <u>RESISTORS</u> | | IC5205 | PST3628UR |
| Other Resistors | RS1/16S###J | IC5208 IC5213 | TC74VHC08FT TC74VHC123AFT |
| 0711500 | | 103213 | 10/4V10123AF1 |
| OTHERS | ALCD4040 | IC5214, IC5215 | TC74VHC32FT |
| JA9453 9P D-SUB SOCKET 3214 SLOT PANEL S(F) | AKP1240 ANG2695 | IC5211, IC5212 | TC74VHC541FT |
| 3526 HEXAGON HEADED SCREW | BBA1051 | IC5209 | TC7W126FU |
| 3500 SCREW | BMZ30P060FZK | Q5201 D5207-D5212 | 2SJ461A 1SS301 |
| 9451 SCREW TERMINAL | VNE1949 | D0201-D0212 | 100001 |
| | | D5217, D5218 | 1SS355 |
| KEY CONTROL ASSY | , | D5201 | SML-310LT |
| | 1 | CWITCHES | |
| SEMICONDUCTORS | DDE7104 | SWITCHES SE201 | A C L 1 C 4 7 |
| IC9001 Q9001 | PD5719A 2SC4116 | S5201 | ASH1047 |
| D9001-D9003, D9005-D9007 | 1SS302 | | |
| , | | | |
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| <u> Mark No.</u> | <u>Description</u> | Part No. | Mark No. | <u>Description</u> | Part No. | |
|----------------------|------------------------------|-------------------|----------------------|----------------------------|-----------------|----|
| CAPACITOR | • | _ | C5401. C54 | 113, C5417, C5424 | ACH1396 | |
| C5213, C522 | | ACH1357 | (100micro | | | |
| | 23, C5231, C5245-C5262 | CKSRYB102K50 | C5434, C54 | , | CKSRYB102K50 | |
| C5264 | 10, 00201, 00240 00202 | CKSRYB102K50 | C5402-C54 | 12, C5414-C5416 | CKSSYF104Z16 | Α |
| C5232 | | CKSRYB104K16 | | 23, C5425-C5431 | CKSSYF104Z16 | |
| C5263 | | CKSRYB104K25 | | -, | | |
| 03200 | | 01(0111111041(25) | RESISTOR | s. | | |
| C5230 | | CKSRYB105K6R3 | R5406, R54 | | RAB4C101J | |
| C5205 | | CKSRYB472K50 | • | 13, R5415, R5416, R5419 | | |
| | 4, C5208, C5210-C5212 | CKSSYF104Z16 | R5422 | 10, 110+13, 110+10, 110+13 | RAB4C220J | _ |
| | 24, C5226, C5227 | CKSSYF104Z16 | R5405 | | RS1/16S5601F | |
| C5243, C524 | | CKSSYF104Z16 | Other Resis | etors | RS1/16S###J | |
| 03240, 0324 | ** | 0110011104210 | Other resis | 51013 | 1101/100###0 | |
| RESISTORS | 2 | | OTHERS | | | |
| | <u>2</u> 11, R5212, R5235 | RAB4C101J | K5401 TES | ET DINI | AKX9002 | |
| | 55, R5265, R5266 | RAB4C101J | K5401 TES | OI FIIN | ANA9002 | |
| | 00, H0200, H0200 | | | | | В |
| R5205 | 71 | RAB4C103J | IADDDECO | CN DI OCKI | | |
| R5270, R527 | | RAB4C472J | _ | CN BLOCK] | | |
| R5256, R525 |) <i>(</i> | RAB4C474J | RESISTOR | | | |
| Other Deet | 0.40 | D04/400#### | Other Resis | stors | RS1/16S###J | |
| Other Resist | UIS | RS1/16S###J | <u>OTHERS</u> | | | |
| THE DO | | | CN5521 50 | P CONNECTOR | AKM1201 | |
| <u>OTHERS</u> | | | ⚠ CN5501-CN | N5508 40P CONNECTOR | | |
| CN5201 8P | | AKM1225 | CN5511 30 | P CONNECTOR | AKM1218 | |
| | 3P CONNECTOR | AKM1274 | 21.22.7 | | - | |
| K5201 TES | | AKX9002 | | | | |
| Ŷ X5201 (16M | lHz) | ASS1178 | | | | |
| | | | [DIGITAL DI | D CON BLOCK] | | |
| | | | SEMICONI | | | С |
| PANEL FLA | SH BLOCK] | | <u>SEIIIIOSTT</u> | 30010110 | PQ05DZ11 | • |
| SEMICOND | UCTORS | | ∴ IC5602 | | PQ09DZ11 | |
| IC5305 | | MBM29PL160BD-75 | | 203 | HN1C01FU | |
| IC5303 | | PST3612UR | Q5605 | 503 | RN1901 | |
| IC5301 | | PST3628UR | | 603, D5609, D5610 | 1SS355 | |
| IC5302 | | TC74VHC08FT | D3002, D30 | 003, D3009, D3010 | 133333 | _ |
| Q5301 | | RN1901 | D5601 | | HZU2.2B | |
| | | | D5604 | | UDZS5.1B | |
| D5301-D531 | 0 | 1SS302 | D3604 | | UDZ33.1B | |
| | | | CADACITO | DC | | |
| CAPACITOR | 35 | | CAPACITO | | | |
| C5320 | | CCSRCH470J50 | | 603, C5607, C5614, C5616 | ACH1394 | |
| C5304, C530 | 17 | CKSRYB102K50 | (100micro | , | 01/07//7/001/70 | D |
| C5311, C531 | | CKSRYB104K16 | | 604, C5615, C5617 | CKSRYB103K50 | |
| C5303, C530 | | CKSRYB472K50 | C5605, C56 | 506, C5610 | CKSSYF104Z16 | |
| | 02, C5305, C5309, C5313 | CKSSYF104Z16 | | | | |
| 05501, 0550 | , OJJOJ, OJJOB, OJJIS | UNUU 11 104210 | RESISTOR | <u>IS</u> | | |
| C5316 | | CKSSYF104Z16 | R5601 | | ACN1162 | |
| 05510 | | UNUU 11 104Z 10 | R5627 | | ACN1168 | _ |
| DECICTOR | 2 | | Other Resis | stors | RS1/16S###J | |
| RESISTORS | | DADAGGG | | | | |
| R5317, R531 | | RAB4C101J | <u>OTHERS</u> | | | |
| Other Resist | ors | RS1/16S###J | | H 7P CONNECTOR 7P | AKM1278 | |
| ATILIED | | | | H 11P CONNECTOR 11P | AKM1282 | |
| <u>OTHERS</u> | | | | | | |
| CN5301 15F | | AKM1232 | | | | Е |
| K5301 TEST | | AKX9002 | | | | |
| 1 X5302 (85MI | | ASS1174 | VIDE | O SLOT2 ASSY | | |
| 1 X5301 (60MI | Hz) | ASS1176 | | | | |
| | | | [INPUT REC | - | | |
| | | | <u>SEMICONI</u> | DUCTORS | | |
| IC4 BLOCK | | | IC7804 | | BA4558F-HT | |
| SEMICOND | - | | <u></u> IC8104 | | PQ015YZ01ZP | |
| IC5401 | | PD5856A | ∆ IC8101 | | PQ05DZ11 | |
| D5401 | | SML-310LT | ∴ IC8102 | | PQ09DZ11 | |
| D5402 | | SML-310MT | ∴ IC8103, IC8 | 3105 | PQ3DZ13 | |
| | | 5 5 1 0 1 1 1 | | | | |
| COILS AND | FILTERS | | IC7803 | | TC4052BFT | |
| | | ATE1104 | IC7801, IC7 | 7802 | TK15420M | F |
| F5401, F540 | 3, F5409, F5410 | ATF1194 | Q7805 | | 2SC4116 | |
| ~ A DA O!TO! | 20 | | Q7803, Q78 | 304 | DTC124EUA | |
| CAPACITOR | <u>15</u> | | Q7806 | | HN1C01FU | |
| | | | | | | |
| | | | PDP-5004 | | | 85 |
| | | | | _ | | |

| | Mark No. Description D7801-D7804, D7806-D7814 | Part No. 1SS302 | Mark No. Description L6255, L6256 | Part No. LCTAW330J2520 |
|---|---|--------------------------------|--|--|
| | D8106, D8107 | 1SS302 | O A DA OITO DO | |
| | D7815, D8101-D8105 | 1SS355 | <u>CAPACITORS</u> | 0000001400450 |
| Α | COILS AND FILTERS F8101-F8103 | ATF1194 | C6305, C6306, C6312, C6313 C6272, C6274, C6288, C6290 C6249, C6250 C6273, C6289 | CCSRCH120J50 CCSRCH220J50 CCSRCH471J50 CCSRCH680J50 |
| | <u>CAPACITORS</u> | | C6295, C6321, C6322, C6327-C6330 | CEHAT101M10 |
| | C7850 | CEHAT100M50 | _ | |
| | C8105, C8114, C8125, C8130 | CEHAT101M10 | C6324 | CEHAT470M16 |
| | C8112 | CEHAT101M16 | C6297 | CKSQYB225K10 |
| | C7808 | CEHAT220M50 | C6258, C6260 C6265, C6268, C6282, C6285 | CKSRYB102K50 CKSRYB104K16 |
| | C8101, C8131 | CEHAT221M16 | C6299, C6300, C6309, C6310, C6316 | |
| | C8122 | CEHAT221M6R3 | ,,,,, | |
| _ | C7801, C7847, C7848, C8107, C8109 | | C6323 | CKSRYB104K16 |
| В | C8116 | CEHAT470M16 | C6201, C6301, C6314 | CKSRYB105K10 |
| | C7806 | CEHAT471M16 | C6251, C6253-C6257, C6259 | CKSSYF104Z16 |
| | C7821, C7825, C7835, C7840, C7851 | CEHAT4R7M50 | C6261, C6262, C6267, C6269-C6271 | CKSSYF104Z16 |
| | 07050 07055 | OF LIAT 4D 78 450 | C6275-C6279, C6284, C6286, C6287 | CKSSYF104Z16 |
| | C7853, C7855 C7827, C7828, C7842, C7843 | CEHAT4R7M50 CKSRYB102K50 | C6291-C6294, C6296, C6298 | CKSSYF104Z16 |
| | C7827, C7828, C7842, C7843 C7857, C7858 | CKSRYB102K50 | C6302-C6304, C6307, C6308, C6311 | CKSSYF104Z16 |
| | C7803, C7812, C7814, C7815 | CKSRYB103K50 | C6315, C6317-C6320, C6325, C6326 | CKSSYF104Z16 |
| | C7813, C7816, C7817 | CKSRYB105K10 | C6252 | DCH1165 |
| | | | | |
| | C7823, C7824, C7839, C7844, C7854 | CKSRYB221K50 | <u>RESISTORS</u> | |
| | C7859 | CKSRYB221K50 | R6251-R6254, R6271, R6275, R6276 | |
| С | C7802, C7807, C7820, C7830 | CKSSYF104Z16 | R6329-R6331 | RAB4CQ103J |
| | C8102-C8104, C8106, C8108 | CKSSYF104Z16 | R6321, R6322, R6334, R6335, R6339 R6273, R6289 | |
| | C8110, C8111, C8113, C8115, C8121 | CN351F104Z16 | R6305, R6314 | RS1/16S1001F RS1/16S1101F |
| | C8124, C8126-C8129, C8132 | CKSSYF104Z16 | 1100005, 110014 | 1101/10011011 |
| | 30.2., 30.20 30.23, 30.02 | 0.100.1.10.2.10 | R6291, R6309, R6313 | RS1/16S1301F |
| | | | R6323 | RS1/16S2400F |
| | <u>RESISTORS</u> | | R6277, R6288 | RS1/16S2701F |
| | R8113 | RS1/16S1001F | R6264, R6281 | RS1/16S4700F |
| | R8112 | RS1/16S5100F | R6306, R6307 | RS1/16S8201F |
| | R7808, R7809, R7822, R7823, R7834 | | R6255 | RS1/16SS100J |
| | R7836, R7837 R8106, R8118 | RS1/16S75R0F RS1MMF100J | Other Resistors | RS1/16S###J |
| _ | no 100, no 110 | LO LIMIMIL 1000 | | . 10 1, 100 |
| D | R8108, R8119-R8121 | RS1MMF390J | <u>OTHERS</u> | |
| | Other Resistors | RS1/16S###J | X6251 CRYSTAL OSCILLATOR | ASS1175 |
| | | | | |
| | <u>OTHERS</u> | | | |
| | CN7801 DIN SOCKET | AKP1217 | [IC1(CVBS)BLOCK] | |
| | JA7801-JA7803 JACK | DKB1031 | <u>SEMICONDUCTORS</u> | |
| | JA7804 JACK JA7805 JACK | VKB1134 | IC6106 | IC42S16100-7TG |
| | 7801, 7802 SCREW TERMINAL | VKB1150 VNE1949 | IC6107 IC6102-IC6105 | PD0278A TC7SHU04FU |
| | 7001, 7002 0011244 121114114712 | VIVE 10-10 | Q6103 | DTC124EUA |
| | | | Q6101, Q6102 | HN1A01FU |
| _ | [IC1(Y/C)BLOCK] | | | |
| Ε | <u>SEMICONDUCTORS</u> | | Q6107 | HN1B04FU |
| | IC6257 | 24LC01B | | |
| | IC6255 | PD0278A | COILS AND FILTERS | |
| | IC6251-IC6254 | TC7SHU04FU | F6102, F6103, F6105, F6106 | ATF1194 |
| | IC6256 | TC7W126FU | L6101, L6103 | LCTAW120J2520 |
| | Q6255 | 2SJ461A | L6102, L6104 L6108 | LCTAW150J2520 LCTAW220J2520 |
| _ | Q6258 | DTA124EUA | L6106 | LCTAW330J2520 |
| | Q6251, Q6253 | HN1A01FU | | |
| | Q6256, Q6257 | HN1B04FU | <u>CAPACITORS</u> | |
| | | | C6171, C6172 | CCSRCH120J50 |
| | COILS AND FILTERS | | C6126, C6128, C6142, C6144 | CCSRCH220J50 |
| F | F6251-F6254 | ATF1194 | C6127, C6143 | CCSRCH680J50 |
| | L6251, L6253 | LCTAW120J2520 | C6102, C6106, C6115, C6149, C6155 | |
| | L6252, L6254 L6257 | LCTAW150J2520 LCTAW220J2520 | C6182, C6184, C6186 | CEHAT101M10 |
| | LUZUI | LUIMVVZZUUZUZU | | |
| | 86 | PDP-5 | 5004 | |
| | 1 = | 2 | 3 | 4 |

| | 5 | 6 | _ | I | 7 | _ | | 8 |
|----------------------------------|--------------------------------------|------------------------------|------|-----------|--------|--------------------|--------------------|-----------|
| Mark No. | Description | Part No. | | Mark No. | | Description | Part N | <u>o.</u> |
| C6105 | | CEHAT470M16 | | | | | | |
| C6151 C6112, C6114 | | CKSQYB225K10 CKSRYB102K50 | | OTHERS | T DANI | EL 060 (CM) | ANC0710 | |
| , | , C6136, C6139 | CKSRYB104K16 | | 3201 SCRI | | EL 262 (CM) | ANG2710 BMZ30P0 | |
| C6153, C6154, | , C6168, C6177 | CKSRYB104K16 | | 3202 SCRI | | | BPZ30P08 | |
| C6101, C6175, | , C6190 | CKSRYB105K10 | | | | | | |
| C6103, C6104, | , C6107-C6111, C6113 | CKSSYF104Z16 | | | | | | |
| C6116, C6121, | , C6123-C6125 C6138, C6140, C6141 | CKSSYF104Z16 CKSSYF104Z16 | | | | | | |
| C6145-C6148, | | CKSSYF104Z16 | | | | | | |
| C6156-C6161 | C6166, C6167, C6170 | CKSSYF104Z16 | | | | | | |
| | , C6176, C6178-C6181 | CKSSYF104Z16 | | | | | | |
| C6183 | | CKSSYF104Z16 | | | | | | |
| RESISTORS | | | | | | | | |
| | , R6178, R6180 | RAB4CQ0R0J | | | | | | |
| R6101, R6104 | -R6106, R6120 | RAB4CQ100J | | | | | | |
| R6124, R6125 R6153-R6155 | | RAB4CQ100J RAB4CQ103J | | | | | | |
| R6210-R6213 | | RAB4CQ121J | | | | | | |
| R6146, R6159 | R6184 | RAB4CQ330J | | | | | | |
| R6156, R6160 | , R6161, R6194, R6195 | RS1/16S1000F | | | | | | |
| R6122, R6140 R6175 | | RS1/16S1001F | | | | | | |
| R6147, R6174 | | RS1/16S1101F RS1/16S1301F | | | | | | |
| Dodoo | | D04/4000400E | | | | | | |
| R6196 R6126, R6138 | | RS1/16S2400F RS1/16S2701F | | | | | | |
| R6113, R6129 | | RS1/16S4700F | | | | | | |
| R6167, R6168 R6107 | | RS1/16S8201F RS1/16SS100J | | | | | | |
| 110107 | | 1101/10001000 | | | | | | |
| R6157, R6158, Other Resistors | , R6182- R6183 | RS1/16SS330J RS1/16S###J | | | | | | |
| Other Resistors | 5 | N31/103###J | | | | | | |
| [SINGLE SW I | BI OCKI | | | | | | | |
| SEMICONDU | _ | | | | | | | |
| IC7902 | | AN5870SB | | | | | | |
| IC7908 IC7907 | | TC74VHC08FT TC74VHC126FT | | | | | | |
| IC7905 | | TC74VHCT541AFT | | | | | | |
| Q7903, Q7905 | , Q7910 | DTC124EUA | | | | | | |
| Q7913, Q7916 | | HN1A01FU | | | | | | |
| Q7901, Q7906 | , Q7911, Q7915 | HN1C01FU | | | | | | |
| Q7914 | | RN1902 | | | | | | |
| CAPACITORS | <u>S</u> | | | | | | | |
| C7923, C7925, | , C7926 | CEHANP470M10 | | | | | | |
| C7905 C7902 C7928 | , C7929, C7931 | CEHAT101M10 CEHAT470M16 | | | | | | |
| C7908, C7912 | , C7917 | CEHAT471M16 | | | | | | |
| C7907, C7911, | , C7916 | CKSRYB103K50 | | | | | | |
| C7924, C7927 | , C7930 | CKSRYB105K10 | | | | | | |
| | , C7910, C7914, C7918 | CKSRYF103Z50 | | | | | | |
| | , C7913, C7915 C7932, C7943 | CKSSYF104Z16 CKSSYF104Z16 | | | | | | |
| | | | | | | | | |
| RESISTORS | , R7910, R7914 | RAB4CQ0R0J | | | | | | |
| R7917, R7918, | • | RAB4CQ0R0J | | | | | | |
| R7903 | D7010 | RAB4CQ103J | | | | | | |
| R7905, R7909, R8040-R8042 | , n/912 | RS1/16S27R0F RS1/16S75R0F | | | | | | |
| | _ | | | | | | | |
| Other Resistors | 5 | RS1/16S###J | | | | | | 87 |
| _ | 5 = | 6 | PDP- | 5004 | 7 | _ | | Ω |

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6. ADJUSTMENT



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1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.

2

- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

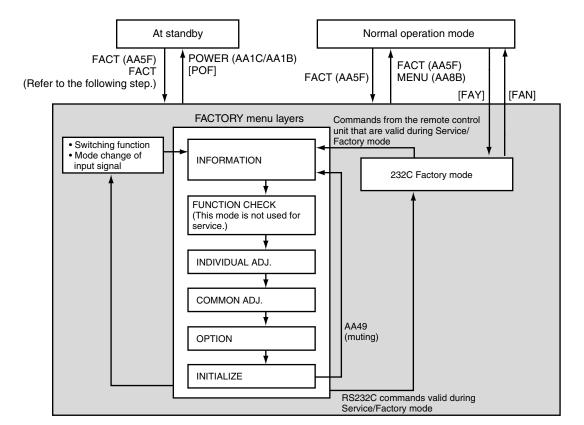
6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

| POWER SUPPLY Unit | No adjustment required |
|--|--|
| DIGITAL VIDEO Assy | Copy of backup data requires. • When adjust with the service factory mode, refer to "10.DIGITAL EEPROM" of "6.2 SERVICE FACTORY MODE • When adjust with the command, refert to "7.1.6 BACKUP THE ADJUSTMENT VALUES FOR THE MAIN UNIT." |
| 50 X DRIVE Assy | No adjustment required |
| 0 Y DRIVE Assy | No adjustment required |
| AV I/O Assy | No adjustment required |
| RGB Assy | No adjustment required |
| /IDEO SLOT Assy | No adjustment required |
| Other assemblies | No adjustment required |
| Service Panel | Refer to "6.4 METHOD FOR REPLACING THE SERVI |
| l When any part in the follow | ing assemblies is replaced |
| DOWED CLIPPLY II II | The assembly must be replaced as a unit, and no part |
| POWER SUPPLY Unit | replacement is allowed. |
| | replacement is allowed. No adjustment required |
| IGITAL VIDEO Assy | |
| IGITAL VIDEO Assy 0 X DRIVE Assy | No adjustment required |
| OWER SUPPLY Unit PIGITAL VIDEO Assy 0 X DRIVE Assy 0 Y DRIVE Assy V I/O Assy | No adjustment required No adjustment required |
| O X DRIVE Assy O Y DRIVE Assy | No adjustment required No adjustment required No adjustment required No adjustment required Replacement and repair of IC6810, IC7610 and IC8705 |
| GITAL VIDEO Assy O X DRIVE Assy O Y DRIVE Assy / I/O Assy | No adjustment required No adjustment required No adjustment required No adjustment required Replacement and repair of IC6810, IC7610 and IC8705 are impossible. Replacement and repair of IC6001, IC6401, IC6403, |

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Commands in Service/Factory mode must be issued using the remote control unit supplied with the Plasma Display.

■ State Transition Diagram



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6.3 HOW TO ENTER FACTORY MODE

For adjustments, it is necessary to enter Service/Factory mode. There are two ways to enter Service/Factory mode: by using the remote control unit, or by using RS232C commands from your PC.

3

When the unit is in Standby (STB) Mode

• Please refer to the technical document (Service Knowhow)

When the power is on

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| No. | Method | Procedures | | | |
|-----|---------------------|--|--|--|--|
| 1 | Remote control unit | When the conventional Service/Factory code (AA5F) is sent, the unit will enter Service/Factory mode. | | | |
| 2 | PC | Connect your PC via its RS232C port, and send the FAY command. | | | |

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■ Operation when Service/Factory mode is entered

• Functions whose settings are set to OFF

The settings of the following functions are set to OFF when Service/Factory mode is entered (including when this mode is entered by receiving the FAY command):

- SPLIT (The display will become that of the main input.) (for PDP-5004, PDP-4304 only)
- MASK CONTROL

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• ORBITER

User's setting data

User setting data are set as follows:

- Although user's adjustment data for video/audio adjustment and various adjustment are stored in memory, they are not reflected on the display.
- Although user's adjustment data for SCREEN are stored in memory, SCREEN adjustment data are reset to the default settings.
- Screen size and sound volume reflect user settings.
- The COLOR DECODING and SIGNAL FORMAT settings are reset to the default values.

■ Functions of the keys on the remote control unit in Service/Factory mode

| SR Function | Main Function | Description |
|-----------------|-------------------------------|---|
| MUTING | Switching main items | For shifting to the next (top) main item |
| ▼ (DOWN) | Switching subitems | For shifting to the next (downward) subitem |
| ▲ (UP) | Switching subitems | For shifting to the previous (upward) subitem |
| ◄ (LEFT) | Increasing adjustment value | For increasing adjustment value |
| ► (RIGHT) | Decreasing adjustment value | For decreasing adjustment value |
| SET | Shifting layers | For shifting to lower or upper layer |
| INPUT * | Switching inputs | For switching the input to * |
| STANDBY/ON | POWER OFF | For turning off the power |
| FACTORY | Service/Factory OFF | For setting Service/Factory mode to OFF |
| MENU | Service/Factory OFF | For setting Service/Factory mode to OFF |
| SPLIT | Main screen/Sub screen change | MAIN ←→ SUB (for PDP-5004, PDP-4304 only) |

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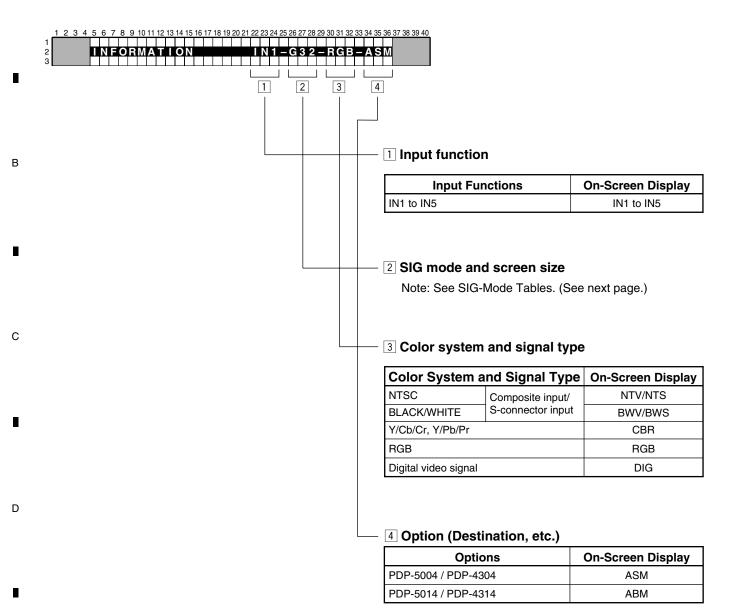
С

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1 2 3 4

■ Main-item indications

Four parameters are displayed:



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● SIG-Mode Table

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The signal mode is displayed in three characters:

First character: Resolution of the input signal (numerics for the video signals, and alphabetics for the PC signals) **Second character:** Grouping of the vertical frequencies

| 2nd Character | Reference Vertical Frequency | Area | Remarks |
|---------------|---------------------------------|--------------|--|
| - | _ | - 20.0 | No signal |
| В | | 20.0 to 28.0 | |
| С | | 28.0 to 45.0 | |
| 1 | 50 | 45.0 to 54.5 | |
| 2 | 56 | 54.5 to 58.2 | |
| 3 | 60 | 58.2 to 63.0 | |
| 4 | 66 | 63.0 to 68.0 | |
| 5 | 70 | 68.0 to 73.4 | |
| 6 | For interpolation of 72-Hz | 73.4 to 73.9 | For distinguishing between 70-Hz or 75-Hz area |
| 7 | 75 | 73.9 to 80.0 | |
| 8 | 85 | 80.0 to 88.5 | |
| ? | - | 91.5 – | Out of range |

Third character: Selection of the screen size by the user is displayed.

(O: available, ×: not available)

| 3rd Character | Description on GUI | VIDEO | PC |
|---------------|--------------------|-------|----|
| 0 | DOT BY DOT | × | 0 |
| 1 | 4:3 | 0 | 0 |
| 2 | FULL | 0 | 0 |
| 3 | ZOOM | 0 | × |
| 4 | WIDE | 0 | × |
| 6 | CINEMA | 0 | × |

• SIG-Mode Table

SIG-Mode table for video signals

| SIG-Mode | Signal Type | Vertical Freq. fv (Hz) | Horizontal Freq. fh (kHz) | Dot Clock (MHz) | Remarks |
|----------|--------------|---------------------------|------------------------------|--------------------|---------|
| 13* | SDTV • 480i | 60.000 | 15.734 | 13.5 | |
| 33* | SDTV • 480p | 60.000 | 31.469 | 27.000 | |
| 43* | HDTV • 1080i | 60.000 | 33.750 | 74.250 | |
| 63* | HDTV • 720p | 60.000 | 45.000 | 74.250 | |

^{*:} Represents the current screen-size selected.

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В

С

SIG-Mode table for PC signals

Α

В

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Е

| SIG-Mode | Signal Type | Vertical Freq. fv (Hz) | Horizontal Freq. fh (kHz) | Dot Clock (MHz) | Remarks |
|----------|-------------|---------------------------|------------------------------|--------------------|---------------------------------|
| A2* | 640 × 400 | 56.422 | 24.825 | 21.052 | Former 720 × 400 |
| A5* | 720 × 400 | 70.087 | 31.469 | 28.322 | Former 640 × 400 |
| A8* | 720 × 400 | 85.050 | 37.861 | 35.438 | New |
| B1* | 640 × 480 | 49.673 | 24.688 | 19.750 | 640 × 480 For rescan (48/50Hz) |
| B3* | | 59.940 | 31.469 | 25.175 | |
| B4* | | 66.666 | 35.000 | 30.240 | - |
| B6* | | 72.809 | 37.861 | 31.500 | - |
| B7* | | 75.000 | 37.500 | 31.500 | - |
| B8* | | 85.000 | 43.300 | 36.000 | |
| C1* | 848 × 480 | 49.540 | 24.621 | 26.000 | 848 × 480 For rescan (48/50Hz) |
| C3* | 1 | 60.000 | 31.020 | 33.750 | - |
| D2* | 800 × 600 | 56.250 | 35.158 | 36.000 | |
| D3* | | 60.317 | 37.879 | 40.000 | - |
| D6* | | 72.188 | 48.077 | 50.000 | - |
| D7* | | 75.000 | 46.875 | 49.500 | - |
| D8* | | 85.061 | 53.674 | 56.250 | |
| E7* | 832 × 624 | 74.550 | 49.725 | 57.283 | |
| F1* | 1024 × 768 | 48.003 | 38.690 | 52.000 | 1024 × 768 For rescan (48/50Hz) |
| F3* | | 60.004 | 48.363 | 65.000 | |
| F5* | | 70.069 | 56.476 | 75.000 | |
| F7* | | 75.029 | 60.023 | 78.750 | - |
| F8* | | 84.997 | 68.677 | 94.500 | - |
| G1* | 1280 × 768 | 48.014 | 38.507 | 65.000 | 1280 × 768 For rescan (48/50Hz) |
| G2* | T | 56.250 | 45.113 | 76.150 | |
| G3* | | 59.870 | 47.776 | 79.500 | - |
| G5* | | 69.843 | 56.014 | 95.000 | - |
| O3* | 1280 × 720 | 59.943 | 44.718 | 74.410 | |

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PDP-5004

^{* :} Represents the current screen-size selected.

INFORMATION mode

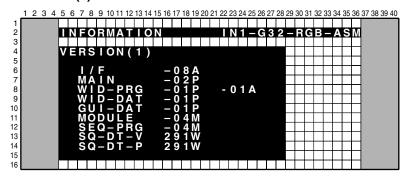
5

Select the main item "INFORMATION" using the MUTE key then select the subitems shown in the table below using the \triangle or ∇ key.

Operation items

| No. | Function / Display | Content | 232C Command |
|-----|--------------------|--|--------------|
| 1 | VERSION (1) | The flash memory versions for each device are displayed (1) | GS1 |
| 2 | VERSION (2) | The type of video card inserted in the slot is displayed: | |
| 3 | SERIAL | For displaying the serial number of the product | GNP |
| 4 | PANEL PD | Power-down and its time of occurrence are displayed. The values can be cleared. | GPD |
| 5 | PANEL SD | Shutdown and its time of occurrence are displayed. The values can be cleared. | GNG |
| 6 | TEMPERATURE | Information on temperature is displayed. | GS2 |
| 7 | HOUR METER | Cumulative power-on time is displayed. The value can be cleared. | GS2 |
| 8 | PULSE METER | The pulse meter values at each block are displayed. The values can be cleared. | GPM |
| 9 | P ON COUNTER | The number of times the power was turned on is displayed. The value can be cleared. | GPC |
| 10 | DIGITAL EEPROM | The status of the backup data for the module microcomputer is displayed and updated. | GS2 |
| 11 | HDMI SIGNAL INFO 1 | The status-register data for the HDMI receiver are read out and | |
| 12 | HDMI SIGNAL INFO 2 | displayed in hexadecimal notation. | _ |

1. VERSION (1)



The flash memory versions for each device are displayed.

| On-Screen Display | Flash memory of Device |
|-------------------|---------------------------------------|
| I/F | User IF microcomputer |
| MAIN | Main microcomputer |
| WID-PRG | Program for IC3, Boot program for IC3 |
| WID-DAT | Extension Engin data for IC3 |
| GUI-DAT | GUI data for IC3 |
| MODULE | Module microcomputer |
| SEQ-PRG | Program for IC4 |
| SQ-DT-V | Sequence data for IC4 (for VIDEO) |
| SQ-DT-P | Sequence data for IC4 (for PC) |

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2. **VERSION** (2)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

INFORMATION IN1-G32-RGB-ASM

VERSION (2)

SLOT-DET 4G 5004R

Whether or not the video card has been inserted:

| Device | Name Indication | Type of VIDEO SLOT Assy | Remarks | |
|----------|--------------------|-------------------------|--|--|
| SLOT-DET | SLOT-DET | (No indication) | No card inserted. | |
| | | 4G 5004R | The video card has been iserted correctly. | |

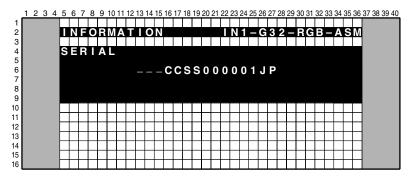
3. SERIAL

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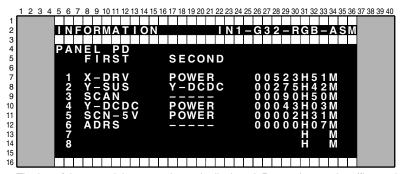
Ε



The serial number of the product is displayed.

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4. PANEL PD



The log of the past eight power-downs is displayed. Power-down points (first and second) and the hour meter value when the power-down was generated are displayed, with the latest power-down data at the top. The meanings of indications for power-down points are shown in the table below.

Power-down information

| Type of Power-down | On-Screen Display | Type of Power-down | On-Screen Display |
|---|-------------------|--|-------------------|
| No corresponding item | | Power-down of the Y-SUS system | Y-SUS |
| Power-down of the main power supply system | POWER | Power-down of the address system | ADRS |
| Power-down of the scanning system | SCAN | Power-down of the X-DRIVE circuitry | X-DRV |
| Power-down in the path between the scanning system and 5-V power supply | SCN-5V | Power-down of the X-DC/DC converter | X-DCDC |
| Power-down of the Y-Drive system | Y-DRV | Power-down of the X-SUS system | X-SUS |
| Power-down of the Y-DC/DC converter | Y-DCDC | Power-down of the driving IC power supply system | D-DCDC |
| PD which cannot be specified | UNKNOWN | | |

^{*1:} If an activated protection circuit could not be identified after the power-down, it is treated as an unidentifiable power-down (UNKNOWN).

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5. PANEL SD

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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 SUB

The log of the past eight shutdowns is displayed. Shutdown points and the hour meter value when the shutdown was generated are displayed, with the latest shutdown data at the top.

The meanings of indications for shutdown points are shown in the table below.

3

• Panel shutdown information

| Type of Shutdown | On-Screen Display (MAIN) | Subcategory |
|--|-----------------------------|-------------|
| Abnormality in IC4 communication | IC4 | |
| Abnormality in module microcomputer IIC communication | MD-IIC | Exists. |
| DIGITAL-DCDC power decrease | RST2 | |
| Abnormality in panel temperature | TEMP1 | |
| Short-circuiting of the speakers | AUDIO | |
| Abnormality in module microcomputer communication | MODULE | |
| Abnormality in three-wire serial communication of the main microcomputer | MA-SRL | Exists. |
| Abnormality in main microcomputer IIC communication | MA-IIC | Exists. |
| Abnormality in main microcomputer communication | MAIN | |
| FAN stopped | FAN | |
| Abnormality in unit temperature | TEMP | Exists. |
| Abnormality in the ASIC power on the main microcomputer side | M-DCDC | |
| Other failures | ETC | Exists. |

Subcategory information

| - Subcategory information | | | | |
|---|---|--|--|--|
| Type of Shutdown | Subcategory | | | |
| MD-IIC | EEPROM4K, EROM2K | | | |
| MA-SRL IF microcomputer, IC2 (IC7004)(IC8702), IC3 (IC7101) | | | | |
| MA-IIC | MA-EEP (IC7205), IC1-V (IC6107), IC1-Y (IC6255), AD-M (IC6001), AD-S (IC6602), SL-EEP (IC6257), IC6/1 (IC5701), IC6/2 (IC5801), VOLIC (IC7603), HDMI 2 (IC6810) | | | |
| TEMP INSIDE/AIR (INSIDE = TEMP2/AIR = TEMP3) | | | | |
| ETC | VCC-D1, VCC-D2, VCC-D4 (IC6809) | | | |

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Data from each temperature sensor and the fan output value are displayed:

Temperature sensors [°C]
 PANEL: Sensor temperature of a panel part (Reference value)

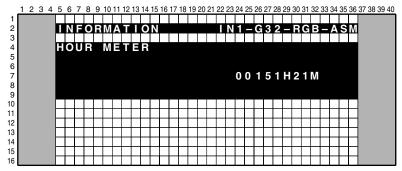
INSIDE: Temperature inside the unit (Reference value)

AIR: Ambient temperature around the unit (Reference value)

• Fan output: Fan output data

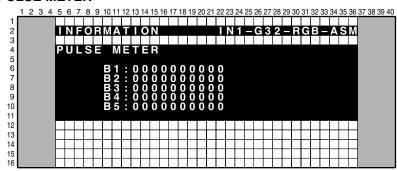
To update the temperature values or fan output data, use the [◄] or [▶] key.

7. HOUR METER



The cumulative power-on time is displayed.

8. PULSE METER



The cumulative number of pulses is displayed.

9. P ON COUNTER



The cumulative number of times the unit was turned on is displayed.

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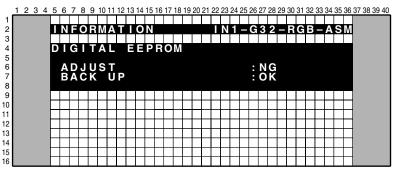
Ε

PDP-5004

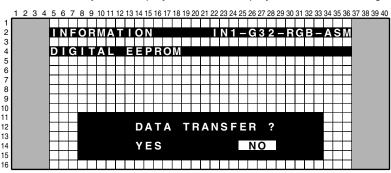
10. DIGITAL EEPROM

When the DIGITAL VIDEO Assy is to be replaced, the adjustment values in it are temporarily stored in the backup ROM then are written on the new Assy after replacement.

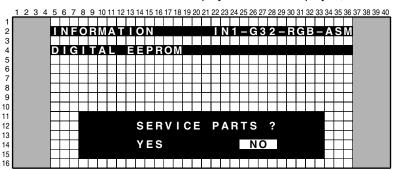
① Check if adjustment has been made on the DIGITAL VIDEO Assy or not (i.e., in the state of a new service part), and if the data on any adjustment values are retained in the backup ROM or not.



- ADJUST: OK (DIGITAL VIDEO Assy adjusted)
 - NG (DIGITAL VIDEO Assy not adjusted)
- BACKUP: OK (Adjustment data retained in the backup ROM)
 NG (Adjustment data not retained in the backup ROM)
- 2 Downloading the data for the DIGITAL VIDEO Assy from the backup ROM
 - Press the SET key while display ① above is displayed, and the following display will appear.



- Move the cursor to YES and press the SET key.
- The data in the backup ROM are copy to the DIGITAL VIDEO Assy.
- (When a new DIGITAL VIDEO Assy has been mounted, it now has the adjustment data suited for the panel.)
- Move the cursor to NO, and press the SET key.
 - Copy of the data to the DIGITAL VIDEO Assy will not be executed.
- 3 Clearing the data in the ROM of the DIGITAL VIDEO Assy
 - When YES or NO is selected while display ② above is displayed, the following display will appear.

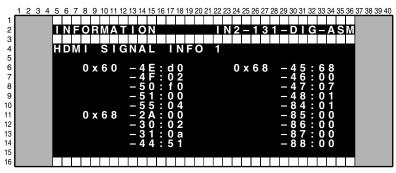


- Move the cursor to YES and press the SET key.
- The data in the ROM of the DIGITAL VIDEO Assy are cleared, and the Assy has no specific adjustment data.
- Move the cursor to NO and press the SET key. The data in the ROM of the DIGITAL VIDEO Assy are not cleared. When YES selected on display ② and the data were copy, select NO on this display.
- **Note:** When YES or NO is selected on display ③ above, the display returns to that of ① above.

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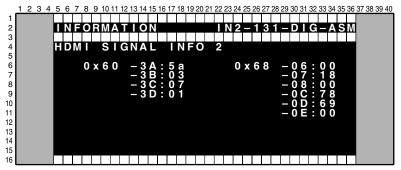
11. HDMI SIGNAL INFO 1

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- The status-register data for the HDMI receiver are read out and displayed in hexadecimal notation.
- If an input function other than HDMI is selected, the indication for HDMI is grayed, and the parameter indication is "--".
- To update the status data, use the left/right keys.

12. HDMI SIGNAL INFO 2



- The status-register data for the HDMI receiver are read out and displayed in hexadecimal notation.
- If an input function other than HDMI is selected, the indication for HDMI is grayed, and the parameter indication is "--".
- To update the status data, use the left/right keys.

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Adjustment of corresponding route unevenness

Basically, only replacement of service parts is required, and adjustment is not required.

| No. | Command | Adjustment Parameter Name in Factory | Function | |
|-----|---------|--|--|--|
| 1 | VSG | CVY GAIN | IC1 MAIN GAIN adjustment (switching routes with the SWM [main] and SWS [sub] commands) | |
| 2 | VSO | CVY OFFSET | IC1 MAIN OFFSET adjustment (switching routes with the SWM [main] and SWS [sub] commands) | |
| 3 | RYG | RY GAIN | AD R GAIN adjustment (correction in differences between component- and RGB-system signals) | |
| 4 | GYG | GY GAIN | AD G GAIN adjustment (correction in differences between component- and RGB-system signals) | |
| 5 | BYG | BY GAIN | AD B GAIN adjustment (correction in differences between component- and RGB-system signals) | |
| 6 | ADC | AD MAIN CONTRAST | AD MAIN RGB GAIN adjustment (for main screen) | |
| 7 | MRG | AD MAIN R GAIN | AD MAIN R GAIN adjustment (for main screen) | |
| 8 | MGG | AD MAIN G GAIN | AD MAIN G GAIN adjustment (for main screen) | |
| 9 | MBG | AD MAIN B GAIN | AD MAIN B GAIN adjustment (for main screen) | |
| 10 | MRO | AD MAIN R OFFSET | AD MAIN R OFFSET adjustment (for main screen) | |
| 11 | MGO | AD MAIN G OFFSET | AD MAIN G OFFSET adjustment (for main screen) | |
| 12 | МВО | AD MAIN B OFFSET | AD MAIN B OFFSET adjustment (for main screen) | |
| 13 | SRG | AD SUB R GAIN | AD SUB R GAIN adjustment (for sub screen) | |
| 14 | SGG | AD SUB G GAIN | AD SUB G GAIN adjustment (for sub screen) | |
| 15 | SBG | AD SUB B GAIN | AD SUB B GAIN adjustment (for sub screen) | |
| 16 | SRO | AD SUB R OFFSET | AD SUB R OFFSET adjustment (for sub screen) | |
| 17 | SGO | AD SUB G OFFSET | AD SUB G OFFSET adjustment (for sub screen) | |
| 18 | SBO | AD SUB B OFFSET | AD SUB B OFFSET adjustment (for sub screen) | |

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Reference: Commands for adjustment of differences in signals and memory cells used for storing adjustment values

• Basically no adjustment is required for the Service Assy, as it is properly adjusted before shipment.

Adjustment values to be stored in the EEPROM of the AV I/O (INDIVIDUAL mode)

Adjustment values differ depending on the input function, input signal format, and main/sub screen.

| Innut and | Commands for Adjustment | | | |
|------------------------------|------------------------------|-----------------------------|--|--|
| Input and Signal Format | Route for the Main Screen | Route for the Sub Screen | | |
| INPUT1 (RGB) | RYG GYG BYG | RYG GYG BYG | | |
| INPUT1 (Color difference) | RYG GYG BYG | RYG GYG BYG | | |

- Four adjustment tables are provided here, depending on the input function, input signal format, and main/sub screen.
- No adjustment is required for INPUT 2, which is of HDMI (digital video interface) standards.

Adjustment values to be stored in the EEPROM of the VIDEO SLOT 2 Assy

Adjustment values differ depending on the input function and main/sub screen.

| Innut and | Commands for Adjustment | | |
|------------------------------|------------------------------|-----------------------------|--|
| Input and Signal Format | Route for the Main Screen | Route for the Sub Screen | |
| INPUT3 (Y/C) | VSG VSO | RYG GYG BYG | |
| INPUT4 (Comp. V) | VSG VSO | RYG GYG BYG | |
| INPUT5 (RGB) | RYG GYG BYG | RYG GYG BYG | |
| INPUT5 (Color difference) | RYG GYG BYG | RYG GYG BYG | |

 Eight adjustment tables are provided here, depending on the input function and main/sub screen.

Adjustment values to be stored in the EEPROM of the RGB (COMMON mode)

Adjustment values differ depending on the signal resolution, input signal format, and main/sub screen.

Note: No adjustment is required for HDMI input or signals converted to digital signals by IC1.

[Main adjustment 1]

Main A/D adjustments for R, G, and B individually (COMMON-RGB mode)

| Input and Signal Format | Commands for Adjustment | | Conditions for the Tables to be Switched |
|----------------------------|----------------------------|-------------------|--|
| 480i (RGB) | MRG MGG MBG | MRO MGO MBO | Video RGB signals |
| 480i (Color difference) | MRG MGG MBG | MRO MGO MBO | Video color-difference signals |
| VGA (RGB) | MRG MGG MBG | MRO MGO MBO | PC signals (640x400 - 832x624) |
| XGA (RGB) | MRG MGG MBG | MRO MGO MBO | PC signals (1024x768 - 1280x768) |

- To adjust the video signals, input corresponding signals to INPUT 5 to change the RGB/color-difference signal setting then perform adjustment.
- To adjust the PC signal, input a signal to INPUT 1.
 Make sure that the SIGNAL FORMAT setting is correctly made.
 Then adjust the signal.
- Four adjustment tables are provided here, depending on the signal resolution, input signal format, and main/sub screen.

[Sub adjustment 1]

Main A/D adjustments for R, G, and B individually (COMMON-RGB 1 mode)

| Input and Signal Format | Commands for Adjustment | | Conditions for the Tables to be Switched |
|----------------------------|----------------------------|-------------------|--|
| RGB | SRG SGG SBG | SRO SGO SBO | All R, G, and B signals |
| Color difference | SRG SGG SBG | SRO SGO SBO | All color-difference signals |

- For adjustment according to the above tables, input video signals to INPUT 5 to switch to the route for sub input and to change the RGB/color-difference signal setting then perform adjustment.
- Two adjustment tables are provided here, depending on the signal format.

[Main adjustment 2]

Main A/D adjustments for all R, G, and B simultaneously (COMMON-RGB 2 mode)

| Input and Signal Format | Commands for Adjustment | Conditions for the Tables to be Switched |
|----------------------------|----------------------------|--|
| RGB | ADC | All R, G, and B signals |
| Color difference | ADC | All color-difference signals |

- For adjustment according to the above tables, input video signals to INPUT 5 to switch to the route for main input and to change the RGB/color-difference signal setting then perform adjustment.
- A contrast gain commits this adjustment command simultaneously three colors.
- Two adjustment tables are provided here, depending on the signal format.

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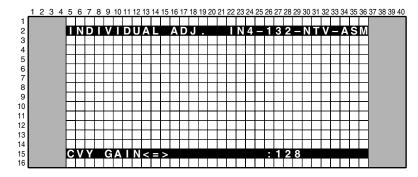
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INDIVIDUAL ADJ. mode



Each time the ▲ or ▼ key is pressed, the individual adjustment items are changed, as follows:

| No. | Corresponding 232C Command | Function/Display | Content | Adjustable Range | Remarks |
|-----|----------------------------|---------------------|---|---------------------|---|
| 1 | VSG | CVY GAIN<=> : *** | MICHAEL (IC6255) input GAIN adj. | 064 to 191 | Select a route with the command |
| 2 | VSO | CVY OFFSET<=> : *** | MICHAEL (IC6255) input OFFSET adj. | 064 to 191 | SWM (main) and the command SWS (sub). |
| 3 | RYG | RY GAIN<=> : *** | AD (IC6001 or IC6602) R input GAIN adj. | | The memory tables for the RGB and |
| 4 | GYG | GY GAIN<=> : *** | AD (IC6001 or IC6602) G input GAIN adj. | 000 to 255 | component systems are separate, and are switchable with the |
| 5 | BYG | BY GAIN<=> : *** | AD (IC6001 or IC6602) B input GAIN adj. | 000 to 255 | command MCD. |

[&]quot;***" in the table above represents the adjustment value.

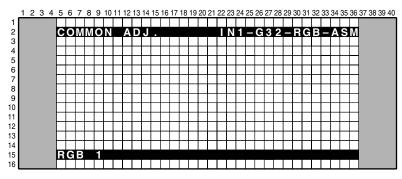
The value of each subitem can be changed using the ◀ or ▶ key.

Notes

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- The differences in signals for the main and sublevel screens from the AV I/O Assy are compensated, and the compensation data are stored in the EEPROM (IC8705) for each screen.
- · No adjustment required normally.

COMMON ADJ. mode



Each time the \blacktriangle or \blacktriangledown key is pressed, the subitems are changed, as follows:

• RGB1(+) : Adjustment of the VIDEO SLOT 2 Assy and the RGB Assy

• RGB2(+) : Adjustment of the RGB Assy

PANEL1(+) : Adjustment items related to the drive (common to the unit)
PANEL2(+) : Adjustment items related to the drive (dependent on signals)

Each time the SET key is pressed, items grouped under the subitem are selected one by one.

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FUNCTION CHECK mode

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FUNCTION CHECK IN1-G32-RGB-ASM

Each time the \blacktriangle or \blacktriangledown key is pressed, the individual adjustment items are changed, as follows:

| No. | Display | Function |
|-----|---------------|---|
| 1 | IC1 TEST<=> : | (Not used) |
| 2 | IC2 TEST<=> : | (Not used) |
| 3 | IC3 TEST<=> : | (Not used) |
| 4 | IC4 TEST<=> : | (Not used) |
| 5 | FAN<=> :*** | The rotation speed of the fan is forcibly switched. (*) |

Note (*):

- The operation of the fan can be checked by setting FAN to MAX.
- Set to CNT normally.

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1. COMMON-RGB1

Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

When the main input is selected

| No. | Corresponding 232C Command | Function/Display | Content | Adjustable Range | Remarks |
|-----|----------------------------|----------------------------|--|---------------------|---------|
| 1 | MRG | AD MAIN R GAIN <=> : *** | AD (IC6001) MAIN R GAIN adj. (for main screen) | 000 to 255 | |
| 2 | MGG | AD MAIN G GAIN <=> : *** | AD (IC6001) MAIN G GAIN adj. (for main screen) | 000 to 255 | |
| 3 | MBG | AD MAIN B GAIN <=> : *** | AD (IC6001) MAIN B GAIN adj. (for main screen) | 000 to 255 | |
| 4 | MRO | AD MAIN R OFFSET <=> : *** | AD (IC6001) MAIN R OFFSET adj. (for main screen) | 000 to 255 | |
| 5 | MGO | AD MAIN G OFFSET <=> : *** | AD (IC6001) MAIN G OFFSET adj. (for main screen) | 000 to 255 | |
| 6 | МВО | AD MAIN B OFFSET <=> : *** | AD (IC6001) MAIN B OFFSET adj. (for main screen) | 000 to 255 | |

When the sub input is selected

| No. | Corresponding 232C Command | Function/Di | isplay | Content | Adjustable Range | Remarks |
|-----|-------------------------------|-----------------|-----------|--|---------------------|---------|
| 1 | SRG | AD SUB R GAIN | <=> : *** | AD (IC6602) SUB R GAIN adj. (for sub screen) | 000 to 255 | |
| 2 | SGG | AD SUB G GAIN | <=> :*** | AD (IC6602) SUB G GAIN adj. (for sub screen) | 000 to 255 | |
| 3 | SBG | AD SUB B GAIN | <=> :*** | AD (IC6602) SUB B GAIN adj. (for sub screen) | 000 to 255 | |
| 4 | SRO | AD SUB R OFFSET | <=> : *** | AD (IC6602) SUB R OFFSET adj. (for sub screen) | 064 to 191 | |
| 5 | SGO | AD SUB G OFFSET | <=> :*** | AD (IC6602) SUB G OFFSET adj. (for sub screen) | 064 to 191 | |
| 6 | SBO | AD SUB B OFFSET | <=> :*** | AD (IC6602) SUB B OFFSET adj. (for sub screen) | 064 to 191 | |

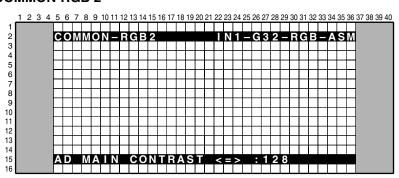
[&]quot;***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

Notes: • The differences in signals for the main and sublevel screens from the RGB Assy are compensated, and the compensation data are stored in the EEPROM (IC7205) for each screen.

• No adjustment required normally.

2. COMMON-RGB 2



| No. | Corresponding 232C Command | Function/Display | Content | Adjustable range | Remarks |
|-----|----------------------------|--------------------------|--|------------------|---------|
| 1 | ADC | AD MAIN CONTRAST<=>: *** | AD (IC6001) MAIN RGB GAIN adj. (for main screen) | 000 to 255 | |

[&]quot;***" in the table above represents the adjustment value.

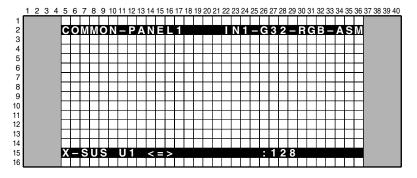
The value of each subitem can be changed using the ◀ or ▶ key.

Note: No adjustment required normally.

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3. COMMON-PANEL1

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Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

| No. | Corresponding 232C Command | Function/Display | Content | Adjustable Range |
|-----|-------------------------------|--------------------|--|------------------|
| 1 | XU1 | X-SUS U1 <=> : *** | Adjustment of X-SUS leading edge pulse U1 | 124 to 132 |
| 2 | XU2 | X-SUS U2 <=> : *** | Adjustment of X-SUS leading edge pulse U2 | 124 to 132 |
| 3 | XD1 | X-SUS D1 <=> : *** | Adjustment of X-SUS trailing edge pulse D1 | 124 to 132 |
| 4 | XD2 | X-SUS D2 <=> : *** | Adjustment of X-SUS trailing edge pulse D2 | 124 to 132 |
| 5 | YU1 | Y-SUS U1 <=> : *** | Adjustment of Y-SUS leading edge pulse U1 | 124 to 132 |
| 6 | YU2 | Y-SUS U2 <=> : *** | Adjustment of Y-SUS leading edge pulse U2 | 124 to 132 |
| 7 | YD1 | Y-SUS D1 <=> : *** | Adjustment of Y-SUS trailing edge pulse D1 | 124 to 132 |
| 8 | YD2 | Y-SUS D2 <=> : *** | Adjustment of Y-SUS trailing edge pulse D2 | 124 to 132 |
| 9 | YD3 | Y-SUS D3 <=> : *** | Adjustment of X-SUS trailing edge pulse D3 | 124 to 132 |
| 10 | YD4 | Y-SUS D4 <=> : *** | Adjustment of X-SUS trailing edge pulse D4 | 124 to 132 |
| 11 | VSU | VLT-SUS <=> : *** | SUS voltage adjustment | 000 to 255 |
| 12 | VOF | VLT-OFS <=> : *** | OFFSET voltage adjustment | 000 to 255 |

[&]quot;***" in the table above represents the adjustment value.

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The value of each subitem can be changed using the ◀ or ▶ key.

Notes:

- Adjustments No. 1 to No. 10 above are not normally required, unless so instructed by Service Information, etc.
- Readjustment of values for No. 11 [VSU] and No. 12 [VOF] are required when the service panel is replaced.

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4. COMMON-PANEL2

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COMMON - PANEL 2 IN1 - G3 2 - RGB - ASM

IN1 - G3 2 - RGB - ASM

IN1 - G3 2 - RGB - ASM

PANEL R-HIGH <=> : 1 28 (PT1)

Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

| No. | Corresponding 232C Command | Function/Display | Content | Adjustable Range |
|-----|-------------------------------|------------------------------|------------------------------|------------------|
| 1 | PRH | PANEL R HIGH <=> : *** (PTO) | Panel W/B R-HIGH adjustment | 000 to 511 |
| 2 | PGH | PANEL G HIGH <=> : *** (PTO) | Panel W/B G-HIGH adjustment | 000 to 511 |
| 3 | PBH | PANEL B HIGH <=> : *** (PTO) | Panel W/B B-HIGH adjustment | 000 to 511 |
| 4 | PRL | PANEL R LOW <=> : *** (PTO) | Panel W/B R-LOW adjustment | 000 to 999 |
| 5 | PGL | PANEL G LOW <=> : *** (PTO) | Panel W/B G-LOW adjustment | 000 to 999 |
| 6 | PBL | PANEL B LOW <=> : *** (PTO) | Panel W/B B-LOW adjustment | 000 to 999 |
| 7 | ABL | ABL LEVEL <=> : *** (ABx) | Power consumption adjustment | 000 to 999 |

[&]quot;***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

White balance adjustment.(From No.1 to No.6). (Refer to 116 pages of the "[W/B-adjustment procedurs]")

Notes: Adjustments No. 7: [ABL] above are not normally required, unless so instructed by Service Information, etc.

"(PTO)" and "(ABx)" in the table above represent the following:

Note: No adjustment required normally.

| Indication | Table |
|------------|-----------------|
| PT1 | For PC and NTSC |

| Indication | Table |
|------------|-------------------------------|
| AB1 | For 60Hz, 72Hz and 75Hz video |
| AB3 | For PC |

OPTION mode

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

OPTION

INI-G3 2 - RGB - ASM

OPTION

PATTERN MASK (+)

Select the main item "OPTION" using the MUTE key then select the subitems shown in the table below using the ▲ or ▼ key.

| No. | Function/Display | Content | Remarks |
|-----|------------------|-----------------------------------|--|
| 1 | PATTERN MASK (+) | For selecting Pattern mask of IC4 | A lower layer exists. |
| 2 | FULL MASK (+) | For selecting raster mask of IC4 | A lower layer exists. |
| 3 | DYNAMIC RANGE | ON ⇔ OFF | The last setting is not stored in memory (initial setting: ON). |
| 4 | EDID WRITE MODE | DISABLE ⇔ ENABLE | The last setting is not stored in memory (initial setting: DISABLE). |

Note

- For PATTERN MASK (+) and FULL MASK (+), press the SET key to switch to the lower layer.
- Adjustments No. 3 and 4 are not required for servicing.

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2. FULL MASK

1. PATTERN MASK

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

OPTION
IN1-G32-RGB-ASM
OPTION

To select the mask frequency, use the \blacktriangleleft or \blacktriangleright key. To select the mask pattern, use the \blacktriangle or \blacktriangledown key.

Mask Frequency

| No. | Corresponding RS-232C Command | Function/ Display | Content |
|-----|-------------------------------|----------------------|----------------------|
| 1 | F48 | V48 | Video 48-Hz sequence |
| 2 | F50 | V50 | Video 50-Hz sequence |
| 3 | F60 | V60 (initial value) | Video 60-Hz sequence |
| 4 | F61 | P60 | PC 60-Hz sequence |
| 5 | F70 | P70 | PC 70-Hz sequence |
| 6 | F72 | V72 | Video 72-Hz sequence |
| 7 | F75 | V75 | Video 75-Hz sequence |

Pattern Mask

| No. | Corresponding RS-232C Command | Function/ Display | Content |
|-----|-------------------------------|----------------------|--|
| 1 | M00 | OFF | Mask mode: OFF |
| 2 | M01 | 01 | White 0 to 100% |
| 3 | M02 | 02 | Aging mask |
| 4 | M03 | 03 | Aging mask (detection of still picture: OFF) |
| 5 | M10 | 10 | H RAMP1 |
| 6 | M11 | 11 | H RAMP2 |
| 7 | M12 | 12 | H RAMP3 |
| 8 | M13 | 13 | H RAMP4 |
| 9 | M14 | 14 | V RAMP |
| 10 | M15 | 15 | H/V RAMP |
| 11 | M20 | 20 | Window0 |
| 12 | M21 | 21 | Window1 |
| 13 | M22 | 22 | Window2 |
| 14 | M23 | 23 | Window3 |
| 15 | M24 | 24 | Window4 |
| 16 | M25 | 25 | Window5 |
| 17 | M26 | 26 | Window6 |
| 18 | M27 | 27 | Window7 |
| 19 | M28 | 28 | Window8 |
| 20 | M29 | 29 | Window9 |
| 21 | M2E | 2E | Wiper for erasing afterimage |
| 22 | M30 | 30 | COLOR BAR |
| 23 | M31 | 31 | Slanted lines |

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Full Mask

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| No. | Corresponding RS-232C Command | Function/ Display | Content |
|-----|-------------------------------|----------------------|-------------------------|
| 1 | M00 | OFF | Mask mode: OFF |
| 2 | M51 | 51 | Raster – White |
| 3 | M52 | 52 | Raster – Red |
| 4 | M53 | 53 | Raster – Green |
| 5 | M54 | 54 | Raster – Blue |
| 6 | M55 | 55 | Raster – Black |
| 7 | M56 | 56 | Raster – Cyan |
| 8 | M57 | 57 | Raster – Mazenta |
| 9 | M58 | 58 | Raster – Yellow |
| 10 | M59 | 59 | Raster – Cyan 274 |
| 11 | M60 | 60 | Raster – 50 fresh color |
| 12 | M61 | 61 | Raster – 50 purple |
| 13 | M62 | 62 | Raster – 50 sky blue |
| 14 | M63 | 63 | Raster – Red 779 |
| 15 | M64 | 64 | Raster – Cyan 218 |
| 16 | M65 | 65 | Raster – Cyan 448 |
| 17 | M66 | 66 | Raster – 43 fresh color |
| 18 | M67 | 67 | Raster – Red 640 |
| 19 | M68 | 68 | Raster – Mazenta 98 |
| 20 | M69 | 69 | Raster – 43 sky blue 1 |
| 21 | M70 | 70 | Raster – 43 sky blue 2 |
| 22 | M71 | 71 | Raster – 43 purple |
| 23 | M72 | 72 | Raster – Blue 960 |
| 24 | M73 | 73 | Raster – Yellow 512 |
| 25 | M74 | 74 | Raster – Gray 512 |

3. DYNAMIC RANGE

The setting can be changed using the \blacktriangleleft or \blacktriangleright key.

| No. | Corresponding RS-232C Command | Function/ Display | Content |
|-----|-------------------------------|----------------------|--|
| 1 | DYY | ON | DYNAMIC RANGE correction: ON (initial setting) |
| 2 | DYN | OFF | DYNAMIC RANGE correction: OFF |

4. EDID WRITE MODE

The setting can be changed using the \triangleleft or \triangleright key.

| No. | Corresponding RS-232C Command | Function/ Display | Content |
|-----|--|----------------------|---|
| 1 | 1 EWN DISABLE Prohibiting writing EDID data (initial set | | Prohibiting writing EDID data (initial setting) |
| 2 | EWY | ENABLE | Enabling writing EDID data |

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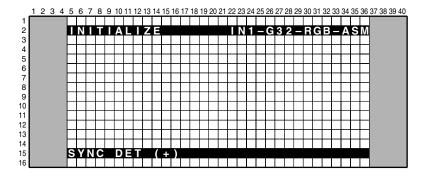
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INITIALIZE mode

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The subitems can be changed using the \blacktriangle or \blacktriangledown key.

| No. | Corresponding RS-232C Command | Function/Display | Content |
|-----|-------------------------------|------------------------|--|
| 1 | _ | SYNC DET (+) *1 | Setting of the sync signal detection (correspond individually) |
| 2 | _ | DRIVE MODE (+) | Setting of the luminescence pulse number of the lowest level (correspond individually) |
| 3 | _ | SIDE MASK LEVEL (+) | Setting of the side mask color (correspond individually) |
| 4 | _ | PANEL REVISE (+) | (Not used) |
| 5 | FST | FINAL SETUP | For initializing user's settings and some factory settings |
| 6 | _ | C TEMP LOW (+) | |
| 7 | _ | C TEMP MID LOW (+) | |
| 8 | _ | C TEMP MID (+) | For adjusting the user's C TEMP MODE item selected |
| 9 | _ | C TEMP MID HIGH (+) | 1 of adjusting the discrete of the WODE Item selected |
| 10 | _ | C TEMP HIGH (+) | |
| 11 | _ | HDMI INTR POSITION (+) | (Not used) |

Note: Any item followed by (+) has a lower layer to which you can switch using the SET key.

*1: SYNC DET

| Setting | Function | Details |
|----------|--|---|
| | | The judgment of synchronization is automatically performed, followed by appropriate image processing. |
| NON-STD1 | LD STILL detection OFF | If the LD STILL operation is performed during setting, the image on the screen is horizontally blurred. |
| NON-STD2 | The judgment of synchronization is set to Nonstandard. | Not the 3-D Y/C processing but the 3-line Y/C processing is performed. |

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1. FINAL SETUP

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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 DATA RESET NO YES

Select YES or NO using the ◀ or ▶ key then press the SET key for finalizing the selection: YES : For executing FINAL SETUP
NO : For not executing FINAL SETUP

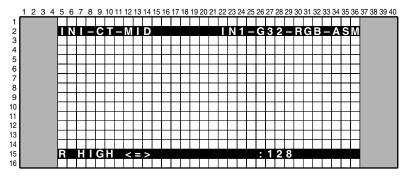
In FINAL SETUP, the following items can be initialized:

| | Item (operation) | Factory setting | Remarks |
|---------|-----------------------|--|--|
| Normal | Input function (main) | INPUT1 | |
| | Input function (sub) | INPUT2 | Only PDP-5004 and PDP-4304 are set. |
| | Screen size | VIDEO WIDE or FULL | The screen-size setting will be one of the factory- |
| | | PC DOT BY DOT or FULL or 4:3 | preset values, based on the results of signal-type detection (SIG-MODE). |
| | Volume | 0 | |
| | Multi screen | OFF | |
| | AV SELECTION | DYNAMIC (at VIDEO), STANDARD (at PC) | |
| Menu | PICTURE | Default setting for all adjustment items | For each input function |
| setting | SCREEN | Default setting for all adjustment items | For each input function |
| | SET UP | Default setting for all adjustment items | For each input function |
| | OPTION | Default setting for all adjustment items | For each input function |
| Factory | PATTERN MASK | OFF | |
| | FULL MASK | OFF | |
| | EDIT WRITE MODE | DISABLE | |
| | PEAK LIMITER | _ | |

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2. C TEMP

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The indication on the 2nd line in the above display varies according to the subitem selected in the upper layer, as follows: INIT-CT- ****

****: LOW/MID/HIGH

Notes: Adjustments are not normally required, unless so instructed by Service Information, etc.

Each time the \blacktriangle or \blacktriangledown key is pressed, items grouped under the subitems are changed, as follows:

| No. | Function/Display | Content |
|-----|---|--|
| 1 | 1 R HIGH <=> For adjusting R highlight in the selected color temperature mode | |
| 2 | G HIGH <=> | For adjusting G highlight in the selected color temperature mode |
| 3 | B HIGH <=> | For adjusting B highlight in the selected color temperature mode |
| 4 | R LOW <=> | For adjusting R lowlight in the selected color temperature mode |
| 5 | G LOW <=> | For adjusting G lowlight in the selected color temperature mode |
| 6 | B LOW <=> | For adjusting B lowlight in the selected color temperature mode |

To change the value of each item, press the ◀ or ► key.

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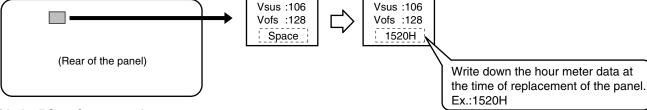
D

6.4 METHOD FOR REPLACING THE SERVICE PANEL ASSY

The following adjustments and operations are required when the Panel Assy is replaced for servicing.

Adjustments of the Vsus and Vofs voltages

Input the reference adjustment values that are described on the service panel for the Vsus and Vofs voltages, with the RS232C commands or on the Factory menu.

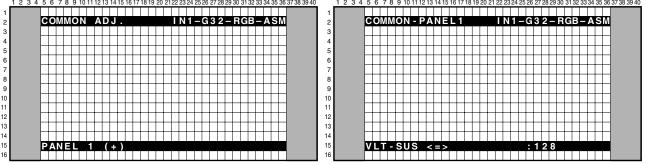


• With the RS232C commands

Input the adjustment values described on the label attached on the rear of the panel:

- Reference adjustment of the Vsus voltage : [VSU***] Ex. : [VSU106]
- Reference adjustment of the Vofs voltage : [VOF***] Ex. : [VOF128]

On the Factory menu



Using the MUTE key, select the main item "COMMON ADJ." Select the subitem "PANEL 1" then "VLT-SUS" or "VLT-OFS," using the ▲ or ▼ key and SET key. Enter the value, using the ◀ or ► key.

■ Clearing various logs for the panel, such as that for the hour meter

It is necessary to clear various logs, such as that for the hour meter, to match the driving hours of the panel before and after replacement. Write down the hour-meter data at the time of replacement of the panel on the label attached to the rear of the panel.

Notes: • For clearing, use the RS232C commands or the Factory menu.

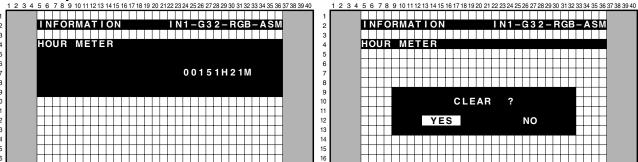
• There are two hour meters. Be careful not to mistake the MR hour meter for the hour meter for the panel.

• With the RS232C commands

You can obtain the accumulated power-on time data of the product itself with the "GS2" RS232C command. (See "6.3 COMMANDS: Command description".)

1 For clearing the hour meter (for the panel): CHM
2 For clearing the pulse meter: CPM
3 For clearing the shutdown (SD) log: CNG
4 For clearing the power-down (PD) log: CPD

On the Factory menu



Using the MUTE key, select the main item "INFORMATION." Select the subitem "HOUR METER," using the ▲ or ▼ key and SET key. Clear the hour-meter data.

In the same way, select the subitem "PULSE METER," "PANEL SD," or "PANEL PD" under the main item "INFORMATION" then clear the data.

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- About GET Command• Operation description of GET command
- Conditions under which GET commands are enabled Most of the GET commands are enabled at any time, regardless of unit's being on/off or in Factory or Normal mode. However, some GET commands must be issued while the power is on to acquire correct data.

GDI: GET STATUS

| | | Data | | | | Size |
|---|---------------|-------------------------|---------------|---------------|---------------|--------|
| | | PDP-5004 | PDP-4304 | PDP-5014 | PDP-4314 | |
| 1 | Resolution | [5]: 1280*768 | [4]: 1024*768 | [5]: 1280*768 | [4]: 1024*768 | 1 Byte |
| 2 | Age type | [4]: 2004 year | 4]: 2004 year | | | 1 Byte |
| 3 | Destination | [A]: America | [A]: America | | | 1 Byte |
| 4 | Grade | [S]: Step up [B]: Basic | | 1 Byte | | |
| 5 | Configuration | [M]: Monitor | | | | 1 Byte |
| 6 | Dummy | [2] | | 1 Byte | | |
| 7 | Spare | [**] | | 2 Byte | | |

GS1: Returning information on the model and the version of the software

| Order | Data | Size |
|-------|-------------------------------------|---------|
| 1 | Data on the display | 3 byte |
| 2 | Version of the module microcomputer | 4 byte |
| 3 | Version of the IC4-MANTA | 4 byte |
| 4 | Sequence version (43VIDEO) | 4 byte |
| 5 | Sequence version (43PC) | 4 byte |
| 6 | Sequence version (50VIDEO) | 4 byte |
| 7 | Sequence version (50PC) | 4 byte |
| 8 | 8 Version of the IF microcomputer | |
| 9 | Version of the main microcomputer | 4 byte |
| 10 | Version of the IC3-MANTA | 4 byte |
| 11 | Version of the OSD | 4 byte |
| 12 | Dummy | 12 byte |

Breakdown of the data on the display

| Diodital | or the data on the display |
|----------|----------------------------|
| Data | Model |
| MX5 | PDP-5004 / PDP-5014 |
| MX4 | PDP-4304 / PDP-4314 |

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GPW: RGB-level-related adjustment values of the panel system

| Order | Data | Size |
|-------|--|--------|
| 1 | Panel W/B table currently used | 3 byte |
| 2 | Main contrast | 4 byte |
| 3 | Red high light of the W/B adjustment value | 4 byte |
| 4 | Green high light of the W/B adjustment value | 4 byte |
| 5 | Blue high light of the W/B adjustment value | 4 byte |
| 6 | Main brightness | 4 byte |
| 7 | Red low light of the W/B adjustment value | 4 byte |
| 8 | Green low light of the W/B adjustment value | 4 byte |
| 9 | Blue low light of the W/B adjustment value | 4 byte |

• Details on "Panel W/B table"

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| Data | Table |
|------|-------------------|
| PT1 | WB table for NTSC |

GPD: Power-down information

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| Order | Data | Size | Order | Data | Size |
|-------|--|--------|-------|---|--------|
| 1 | Latest "1st PD" data | 1 byte | 17 | Fifth latest "1st PD" data | 1 byte |
| 2 | Latest "2nd PD" data | 1 byte | 18 | Fifth latest "2nd PD" data | 1 byte |
| 3 | Data of hour meter for the latest PD | 7 byte | 19 | Data of hour meter for the fifth latest PD | 7 byte |
| 4 | Data on temperature for the latest PD (TEMP1) | 3 byte | 20 | Data on temperature for the fifth latest PD (TEMP1) | 3 byte |
| 5 | Second latest "1st PD" data | 1 byte | 21 | Sixth latest "1st PD" data | 1 byte |
| 6 | Second latest "2nd PD" data | 1 byte | 22 | Sixth latest "2nd PD" data | 1 byte |
| 7 | Data of hour meter for the second latest PD | 7 byte | 23 | Data of hour meter for the sixth latest PD | 7 byte |
| 8 | Data on temperature for the second latest PD (TEMP1) | 3 byte | 24 | Data on temperature for the sixth latest PD (TEMP1) | 3 byte |
| 9 | Third latest "1st PD" data | 1 byte | 25 | Seventh latest "1st PD" data | 1 byte |
| 10 | Third latest "2nd PD" data | 1 byte | 26 | Seventh latest "2nd PD" data | 1 byte |
| 11 | Data of hour meter for the third latest PD | 7 byte | 27 | Data of hour meter for the seventh latest PD | 7 byte |
| 12 | Data on temperature for the third latest PD (TEMP1) | 3 byte | 28 | Data on temperature for the seventh latest PD (TEMP1) | 3 byte |
| 13 | Fourth latest "1st PD" data | 1 byte | 29 | Eighth latest "1st PD" data | 1 byte |
| 14 | Fourth latest "2nd PD" data | 1 byte | 30 | Eighth latest "2nd PD" data | 1 byte |
| 15 | Data of hour meter for the fourth latest PD | 7 byte | 31 | Data of hour meter for the eighth latest PD | 7 byte |
| 16 | Data on temperature for the fourth latest PD (TEMP1) | 3 byte | 32 | Data on temperature for the eighth latest PD (TEMP1) | 3 byte |

Hour meter data; 1 to 5 byte: time, 6 to 7 byte: minute

• Details on "1st/2nd PD" data

| Data | Power-down Point |
|------|---------------------------------|
| 0 | No power-down |
| 1 | Not used (for MR-POWER) |
| 2 | P-POWER |
| 3 | SCAN |
| 4 | SCN-5V |
| 5 | Y-DRIVE |
| 6 | Y-DCDC |
| 7 | Y-SUS |
| 8 | ADRS |
| 9 | X-DRIVE |
| Α | X-DCDC |
| В | X-SUS |
| С | DIG-DCDC |
| D, E | Spare |
| F | Power-down point not identified |

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GNG: Shutdown information

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| Order | Data | Size | Order | Data | Size |
|-------|--|--------|-------|---|--------|
| 1 | Latest SD data | 1 byte | 17 | Fifth latest SD data | 1 byte |
| 2 | Data of subcategory for the latest SD | 1 byte | 18 | Data of subcategory for the fifth latest SD | 1 byte |
| 3 | Data of hour meter for the latest SD | 7 byte | 19 | Data of hour meter for the fifth latest SD | 7 byte |
| 4 | Data on temperature for the latest SD | 3 byte | 20 | Data on temperature for the fifth latest SD | 3 byte |
| 5 | Second latest SD data | 1 byte | 21 | Sixth latest SD data | 1 byte |
| 6 | Data of subcategory for the second latest SD | 1 byte | 22 | Data of subcategory for the sixth latest SD | 1 byte |
| 7 | Data of hour meter for the second latest SD | 7 byte | 23 | Data of hour meter for the sixth latest SD | 7 byte |
| 8 | Data on temperature for the second latest SD | 3 byte | 24 | Data on temperature for the sixth latest SD | 3 byte |
| 9 | Third latest SD data | 1 byte | 25 | Seventh latest SD data | 1 byte |
| 10 | Data of subcategory for the third latest SD | 1 byte | 26 | Data of subcategory for the seventh latest SD | 1 byte |
| 11 | Data of hour meter for the third latest SD | 7 byte | 27 | Data of hour meter for the seventh latest SD | 7 byte |
| 12 | Data on temperature for the third latest SD | 3 byte | 28 | Data on temperature for the seventh latest SD | 3 byte |
| 13 | Fourth latest SD data | 1 byte | 29 | Eighth latest SD data | 1 byte |
| 14 | Data of subcategory for the fourth latest SD | 1 byte | 30 | Data of subcategory for the eighth latest SD | 1 byte |
| 15 | Data of hour meter for the fourth latest SD | 7 byte | 31 | Data of hour meter for the eighth latest SD | 7 byte |
| 16 | Data on temperature for the fourth latest SD | 3 byte | 32 | Data on temperature for the eighth latest SD | 3 byte |

Hour meter data; 1 to 5 byte: time, 6 to 7 byte: minute

• Details on the SD data

| Data | Cause of Shutdown |
|------|---|
| 0 | No abnormality |
| 1 | IC4 |
| 2 | Module microcomputer IIC |
| 3 | Abnormality in DIG-RST2 (power decrease of ASIC) |
| 4 | Panel having abnormally high temperature |
| 5 | Audio failure (short-circuiting of the speakers) |
| 6 | Communication failure of the module microcomputer |
| 7 | Three-wire serial communication failure of the main microcomputer |
| 8 | IIC communication failure of the main microcomputer |
| 9 | Communication failure of the main microcomputer |
| Α | Fan stopped |
| В | Temperature abnormality |
| D | Abnormality in MAIN-RST2 |
| F | Others |

• Data on the subcategories for the module microcomputer IIC

| Data | Cause of Shutdown | | |
|------|-------------------|--|--|
| 0 | No subcategory | | |
| 1 | EEPROM (4k) | | |
| 2 | EEPROM (2k) | | |

• Data on the subcategories for failure in 3-wire serial communication of the main microcomputer

| Data | Cause of Shutdown | | |
|------|---|--|--|
| 0 | No subcategory | | |
| 1 | Communication failure of the IF microcomputer | | |
| 2 | IC2 communication failure | | |
| 3 | IC3 communication failure | | |

• Data on the subcategories for failure in IIC communication of the main microcomputer

| Data | Cause of Shutdown |
|------|------------------------|
| 0 | No subcategory |
| 1 | EEPROM (128k) (IC7205) |
| 2 | Not used |
| 3 | IC1 V (IC6107) |
| 4 | IC1 Y (IC6255) |
| 5 | AD-PLL main (IC6001) |
| 6 | AD-PLL sub (IC6002) |
| 7 | IC6/1 (IC5701) |
| 8 | Not used |
| 9 | HDMI 2 (IC6810) |
| Α | Not used |
| В | Not used |
| С | Not used |
| D | Not used |
| E | Not used |
| F | EEPROM (SLOT) |
| G | Not used |
| Н | Not used |
| N | IC6/2 (IC5801) |

• Subcategory data on abnormal temperature

| Data | Cause of Shutdown | | |
|------|--------------------------------------|--|--|
| 2 | Temperature inside the unit (INSIDE) | | |
| 3 | Ambient temperature (AIR) | | |

• Subcategory data on other failures

| Data | Cause of Shutdown | | |
|------|-----------------------------------|--|--|
| 2 | Power monitor 1 (VCC-D1) | | |
| 3 | Power monitor 1 (VCC-D2) | | |
| 5 | Power monitor 1 (VCC-D4) (IC6809) | | |

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GS2: Status information

| Order | Data | Size | Remarks |
|-------|---|--------|--|
| 1 | Notifying of switching to Standby mode | 1 byte | 1: Successfully switched to Standby mode |
| 2 | Whether the unit has already been adjusted or not | 1 byte | 0: Adjusted, 1: Not adjusted |
| 3 | With/without backup of adjustment data | 1 byte | 0: With backup, 1: Without backup |
| 4 | Power-down information | 2 byte | 1st byte: 1st PD, 2nd byte: 2nd PD |
| 5 | Temperature information (TEMP1) | 3 byte | 000 to 255 |
| 6 | Abnormality in RST2 (power decrease of the DC-DC converter) | 1 byte | |
| 7 | IC4 communication failure | 1 byte | |
| 8 | EEPROM communication failure | 1 byte | 0: Normal, 1: Shutdown process caused by an abnormality |
| 9 | Failure in audio | 1 byte | completed, 2: In the process of displaying a warning against |
| 10 | Communication failure of the volume IC | 1 byte | shutdown caused by an abnormality |
| 11 | Backup-ROM communication failure | 1 byte | |
| 12 | Failure in temperature information (TEMP1) | 1 byte | |
| 13 | Activation of panel protection | 1 byte | 0: Panel protection not activated, 1: Panel protection being activated |
| 14 | (Reservation) | 9 byte | ***** |
| 15 | Hour meter | 7 byte | 1st-5th bytes: Hour, 6-7th bytes: Minute |

• Power-down information

| Data | Power-down point |
|------|---------------------------------|
| 0 | No power-down |
| 1 | Not used |
| 2 | P-POWER |
| 3 | SCAN |
| 4 | SCN-5V |
| 5 | Y-DRIVE |
| 6 | Y-DCDC |
| 7 | Y-SUS |
| 8 | ADRS |
| 9 | X-DRIVE |
| Α | X-DCDC |
| В | X-SUS |
| С | DIG-DCDC |
| D | Reservation |
| Е | Reservation |
| F | Power-down point not identified |

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GPM: Value of the pulse meter

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| Order | Data | Size |
|-------|----------------------------|---------|
| 1 | Pulse meter (Block area 1) | 10 byte |
| 2 | Pulse meter (Block area 2) | 10 byte |
| 3 | Pulse meter (Block area 3) | 10 byte |
| 4 | Pulse meter (Block area 4) | 10 byte |
| 5 | Pulse meter (Block area 5) | 10 byte |

Note:

The number of electric discharges at each block is displayed. The first digit represents the number of tens of thousands.

[Location of the block areas from which values from the pulse meter are obtained]

| | | | | | | Block ① | | | | | | | | | | |
|-----|-----|-----|---------|-----|-----|---------|---------|-----|-----|-----|-----|-----|---------|-----|-------|-----|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44_ | 45 | 46 | 47 | |
| 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60_ | Block ② | 62 | 63 | |
| 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | |
| 80 | 81 | 82 | 83 | 84 | 85 | 86_ | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | |
| 96 | 97 | 98 | 99 | 100 | 101 | 10 | Block ③ | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | |
| 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | |
| 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | |
| 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | |
| 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | Block | (4) |
| 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | l |
| 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | |
| 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | l |
| 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | |
| 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | l |
| | | | Block ⑤ |) | | | | | | | | | | | | |

GPC: Number of times the power was turned on

| Order | Data | Size |
|-------|------------------|--------|
| 1 | Power-on counter | 8 byte |

GAJ: Drive-related adjustment values

| Order | Data | Size |
|-------|-----------------------------------|--------|
| 1 | ABL table currently used | 3 byte |
| 2 | Upper limit of the power | 3 byte |
| 3 | Vsus adjustment value | 3 byte |
| 4 | Vofs adjustment value | 3 byte |
| 5 | X-SUS-U1 adjustment value (XU1) | 3 byte |
| 6 | X-SUS-U2 adjustment value (XU2) | 3 byte |
| 7 | X-SUS-D2 adjustment value (XD2) | 3 byte |
| 8 | X-SUS-D1 adjustment value (XD1) | 3 byte |
| 9 | Y-SUS-U1 adjustment value (YU1) | 3 byte |
| 10 | Y-SUS-U2 adjustment value (YU2) | 3 byte |
| 11 | Y-SUS-D1-2 adjustment value (YD2) | 3 byte |
| 12 | Y-SUS-D1-1 adjustment value (YD1) | 3 byte |
| 13 | Y-SUS-D2-2 adjustment value (YD4) | 3 byte |
| 14 | Y-SUS-D2-1 adjustment value (YD3) | 3 byte |

• Details on "ABL table"

| | 011 712 100010 |
|------|--|
| Data | Table |
| AB1 | ABL table for 60Hz,72Hz and 75Hz video |
| AB3 | ABL table for PC |

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LIST OF RS-232C COMMAND

Α

В

| Comr | mand | Operation | Validity of Direct Numeric Input | Lower limit | Upper limit |
|------|------|---|--|----------------|----------------|
| [A] | | | 0 | 000 | 255 |
| ABL | | Adjusting power consumption | | | |
| ADC | | AD MAIN CONTRAST adjustment | | | |
| AMT | S00 | Cancelling the audio mute | | | |
| AMT | S01 | Executing the audio mute | | | |
| AST | | Executing the auto setup | | | |
| [B] | | | | | |
| BCP | | Transmitting the backup data to the DIGITAL VIDEO Assy | | | |
| BSL | | Adjusting the side mask B | 0 | 000 | 255 |
| BYG | | Adjusting the BY GAIN | 0 | 000 | 255 |
| [C] | | | | | |
| CHM | | Clearing the hour meter | | | |
| CNG | | Clearing the MR NG information | | | |
| CPC | | Clearing the power-on counter | | | |
| CPD | | Clearing the power-down information | † | | |
| CPM | | Clearing the pulse meter | 1 | | |
| CTM | | Clearing the remodeling log | | | |
| [D] | | J | | | |
| DRF | | Turning off the power for the drive system | | | |
| DRN | | Turning on the power for the drive system | | | |
| DW0 | | Decresing the adjustment value by 10 | | | |
| DWn | | Decreasing the adjustment value by n | | | |
| DWF | | Minimizing the adjustment value | + | | |
| DYR | S00 | D-range correction NO | + | | |
| DYR | S01 | D-range correction YES | | | |
| [E] | 301 | D-range correction TES | + | | |
| EDW | S00 | Prohibiting the writing of EDID data | | | |
| EDW | S01 | Permitting the writing of EDID data | | | |
| [F] | | 1 Chintary the Wharig of EDID data | | | |
| F48 | | Video 48-Hz sequence | | | |
| F50 | | Video 50-Hz sequence | | | |
| F60 | | Video 60-Hz sequence | | | |
| F61 | | PC 60-Hz sequence | | | |
| F70 | | PC 70-Hz sequence | | | |
| F72 | | Video 72-Hz sequence | | | |
| F75 | | Video 75-Hz sequence | | | |
| FAJ | | Determining the main unit adjustment | + | | |
| FAN | | Turning the Service Factory mode off | + | | |
| FAY | | Turning the Service Factory mode on | + | | |
| FCA | | Turning the fan roll control to auto | + | | |
| FCM | | Maximizing the fan roll control | | | |
| FST | | Executing the FINAL SETUP | + | | |
| [G] | | Exceeding the Little Octor | + | | |
| GAJ | | Obtaining the adjustment values for the panel | † | | |
| GAS | | Obtaining the EQUISITION Values of the parter | | | |
| GDI | | Command for obtaining the command | 1 | | |
| GMM | | Switching the gamma | 0 | 000 | 007 |
| GNG | | Obtaining the shut down (NG) information | + - | - 555 | 307 |
| GNP | | Obtaining the serial number of the panel | + | | |
| GPC | | Obtaining the serial number of the panel Obtaining the value of P ON COUNTER | + | | |

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Е

| Comi | nand | Operation | Validity of Direct Numeric Input | Lower limit | Upper limit |
|------|------|--|--|----------------|----------------|
| GPD | | Obtaining the power-down information | | | |
| GPM | | Obtaining the PULSE METER data | | | |
| GPP | | Obtaining the PD polling log for module | | | |
| GPW | | Obtaining the PANEL W/B data | | | |
| GS1 | | Obtaining the version data for each device | | | |
| GS2 | | Obtaining the each operating information | | | |
| GSL | | Adjusting the side mask GREEN | 0 | 000 | 255 |
| GYG | | Adjusting the GY GAIN | 0 | 000 | 255 |
| | | | | | |
| INP | | Indicating the input function of current main screen | | | |
| INP | S01 | Switching the main screen to Input 1 | | | |
| INP | S02 | Switching the main screen to Input 2 | | | |
| INP | S03 | Switching the main screen to Input 3 | | | |
| INP | S04 | Switching the main screen to Input 4 | | | |
| INP | S05 | Switching the main screen to Input 5 | | | |
| M] | | | | | |
| MSK | S00 | Mask mode: OFF | | | |
| MSK | S01 | White: 0 to 100% | | | |
| MSK | S02 | Aging mask (detection of still picture: OFF) | | | |
| MSK | S03 | Aging mask | | | |
| MSK | S04 | Aging mask (detection of still picture: OFF) | | | |
| MSK | S10 | RAMP slant 1 | | | |
| MSK | S11 | RAMP slant 4 | | | |
| MSK | S12 | RAMP slant 1 shifting | | | |
| MSK | S13 | RAMP slant 4 shifting | | | |
| MSK | S14 | V RAMP | | | |
| MSK | S15 | H/V RAMP | | | |
| MSK | S20 | Window (for W/B adjustment High: 870, Low: 102) | | | |
| MSK | S21 | Window (for W/B adjustment High: 1023, Low: 102) | | | |
| MSK | S22 | Window (for the peak luminance measurement of WB stage High: 1023) | | | |
| MSK | S23 | Window (for the peak luminance measurement High: 1023 4%) | | | |
| MSK | S24 | Window (for the peak luminance measurement High: 1023 1.25%) | | | |
| MSK | S25 | Window-1/7 vertical window (for stress measurement) | | | |
| MSK | S26 | Window (magenta, green, stripe for checker) | | | |
| MSK | S27 | Window (green, magenta, stripe for checker) | | | |
| MSK | S28 | Window (black & white [1 x 8], checkered pattern [for EMG check]) | | | |
| MSK | S29 | Window (for W/B adjustment, magenta=512, yellow=512) | | | |
| MSK | S40 | Wiper to prevent phosphor burn | | | |
| MSK | S30 | Color Bar | | | |
| MSK | S31 | Slanted lines (breaking of wire check) | | | |
| MSK | S51 | Raster-white | | | |
| MSK | S52 | Raster-red | | | |
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Raster-green

Raster-blue

Raster-black

Raster-cyan

Raster-magenta

Raster-cyan 274

Raster-yellow

MSK

MSK

MSK

MSK

MSK

MSK

MSK

S53

S54

S55

S56

S57

S58

S59

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1 2 3 4

Validity of Lower Upper Command Operation Direct limit Numeric Input MSK S60 Raster-50 flesh color MSK S61 Raster-50 light purple MSK S62 Raster-50 sky blue MSK S63 Raster-red 779 MSK S64 Raster-cyan 218 MSK S65 Raster-cyan 448 MSK S66 Raster-43 flesh color MSK S67 Raster-red 640 S68 MSK Raster-magenta 98 MSK S69 Raster-43 sky blue 1 MSK S70 Raster-43 sky blue 2 S71 MSK Raster-43 light purple S72 MSK Raster-blue 960 MSK S73 Raster-gray 511 (spare) MSK S74 Raster-gray 511 (spare) AD MAIN B GAIN 0 000 255 MBG 0 000 MBO AD MAIN B OFFSET 255 0 000 255 MGG AD MAIN G GAIN MGO AD MAIN G OFFSET 0 000 255 MRG AD MAIN R GAIN 0 000 255 MRO AD MAIN R OFFSET 0 000 255 [N] NGN Prohibiting the shut down operation [0] S00 Turning the OSD indication off OSD OSD S01 Turning the OSD indication on [P] S00 PEAK LIMITER OFF PLT PLT S01 PEAK LIMITER ON PBH Panel W/B B-HIGH adjustment 0 000 511 0 000 999 PBL Panel W/B B-LOW adjustment PDN POWER DOWN NO PDY POWER DOWN YES PGH 000 Panel W/B G-HIGH adjustment 0 511 0 PGL Panel W/B G-LOW adjustment 000 999 PL0 Adjusting the brightness setting to 0 PL1 Adjusting the brightness setting to 1 PL2 Adjusting the brightness setting to 2 PL3 Adjusting the brightness setting to 3 PL4 Adjusting the brightness setting to 4 PL5 Adjusting the brightness setting to 5 PLA Center luminance correction ON (APL interlocking OFF) PLN Center luminance correction OFF POF Turning the power OFF PON Turning the power ON PRH Panel W/B R-HIGH adjustment 0 000 511 PRL Panel W/B R-LOW adjustment 0 000 999

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| Comr | mand | Operation | Validity of Direct Numeric Input | Lower limit | Upper limit |
|------|------|--|--|----------------|----------------|
| [R] | | | | | |
| RSL | | Adjusting the side mask RED | 0 | 000 | 255 |
| RYG | | RY GAIN | 0 | 000 | 255 |
| [S] | | | | | |
| SBG | | AD SUB B GAIN | 0 | 000 | 255 |
| SBO | | AD SUB B OFFSET | 0 | 064 | 191 |
| SFI | | Initializing the full mask table | | | |
| SFT | | Indicating the current signal format | | | |
| SFT | S01 | Setting the signal format to PC FORMAT1 (VGA or XGA or SXGA or 720-PC) | | | |
| SFT | S02 | Setting the signal format to PC FORMAT2 (WVGA or WXGA or SXGA+) | | | |
| SFT | S03 | Setting the signal format to VIDEO 525p or VIDEO 750p | | | |
| SFT | S04 | Setting the signal format to PC AUTO | | | |
| SGG | | AD SUB G GAIN | 0 | 000 | 255 |
| SGO | | AD SUB G OFFSET | 0 | 064 | 191 |
| SIP | | Indicating the current function type | | | |
| SIP | S04 | Input switching auxiliary (PC) | | | |
| SIP | S05 | Input switching auxiliary (HDMI) | | | |
| SN0 | | Setting 1, 2, or 3 for the serial number of the panel | | | |
| SN1 | | Setting 4, 5, or 6 for the serial number of the panel | | | |
| SN2 | | Setting 7, 8, or 9 for the serial number of the panel | | | |
| SN3 | | Setting 10, 11, or 12 for the serial number of the panel | | | |
| SN4 | | Setting 13, 14, or 15 for the serial number of the panel | | | |
| SPI | | Initializing the video EEPROM data | | | |
| SRG | | AD SUB R GAIN | 0 | 000 | 255 |
| SRO | | AD SUB R OFFSET | 0 | 064 | 191 |
| SWM | | Full-screen display of main output | | | |
| SWS | | Full-screen display of sub output | | | |
| SZM | | Indicating the current screen size setting | | | |
| SZM | S00 | Setting the screen size to Dot by Dot or PARTIAL | | | |
| SZM | S01 | Setting the screen size to 4:3 | | | |
| SZM | S02 | Setting the screen size to FULL or FULL1080i | | | |
| SZM | S03 | Setting the screen size to ZOOM | | | |
| SZM | S04 | Setting the screen size to CINEMA | | | |
| SZM | S05 | Setting the screen size to WIDE | | | |
| [T] | | | | | |
| TSN | | Trap SW is invalid | | | |
| TSY | | Trap SW is valid | | | |
| [U] | | | | | |
| UAJ | | Return the DIGITAL VIDEO Assy to service parts | | | |
| UP0 | | 10 adds adjustment value | | | |
| UPn | | n adds adjustment value | | | |
| UPF | | Maximizing the adjustment value | | | |

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1 2 3 4

Validity of Direct Numeric Input Upper Lower Command Operation limit limit [V] VMT S00 Cancelling the panel mute VMT S01 Executing the panel mute VOF 000 255 Offset voltage adjustment 0 VOL *** Adjusting the audio volume 0 000 060 VSG **CVY GAIN** 0 064 191 0 000 255 vso CVY OFFSET VSU SUS voltage adjustment 000 255 [W] WAN WBL-APL interlocking prohibition WAY WBL-APL interlocking permission [X] XD1 D1 trailing-edge pulse of X-SUS XD2 D2 trailing-edge pulse of X-SUS XU1 U1 leading-edge pulse of X-SUS XU2 U2 leading-edge pulse of X-SUS [Y] D1 trailing-edge pulse of Y-SUS YD1 D2 trailing-edge pulse of Y-SUS YD2 YD3 D3 trailing-edge pulse of Y-SUS YD4 D4 trailing-edge pulse of Y-SUS YU1 U1 leading-edge pulse of Y-SUS YU2 U2 leading-edge pulse of Y-SUS

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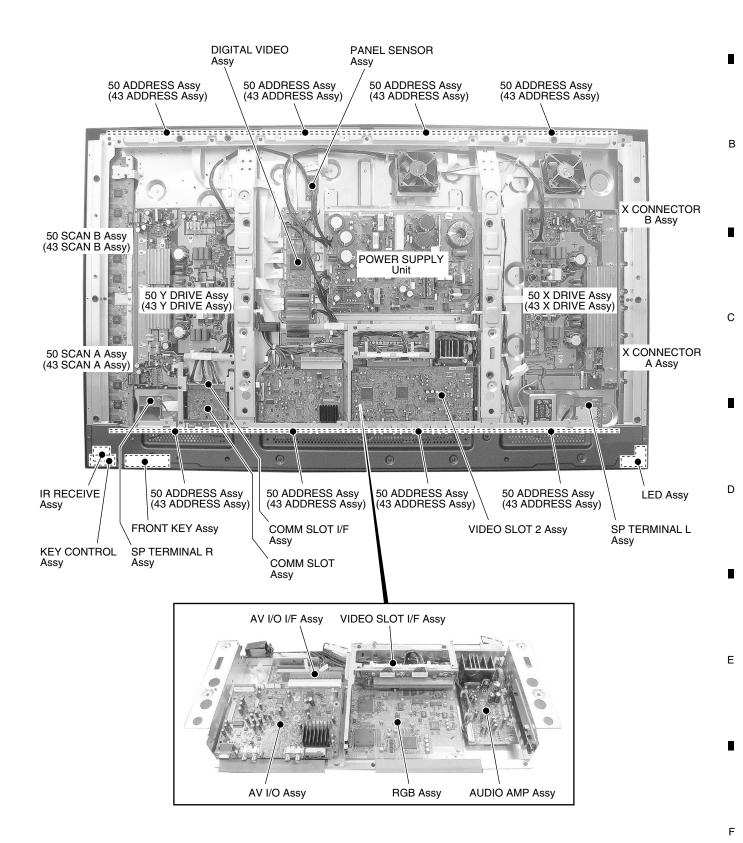
PDP-5004

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 CONFIGURATION OF THE PC BOARD

Note: This illustration is PDP-5004.



• Rear view

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PDP-5004

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7.1.2 DIAGNOSIS FOR SHUTDOWN AND POWER-DOWN BY LED

• Operation statuses indicated by LEDs

LED Α RED GREEN Standby Normal RED GREEN Power on RED GREEN 0.5s 0.5s 0.5s 3.0s Power-down RED GREEN Abnormality Shutdown 0.5s 0.5s 0.5s 3.0s В RED GREEN Remodeling Note: : Lit in red : Lit in green : Not lit

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■ On Shutdown and power-down

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Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly shuts the unit off.
- LED indication: The LED flashes in green.

Note: The LED flashes regardless of the FRONT INDICATOR setting on the Integrator menu.

• Identification of locations having abnormality by the number of times the LEDs flash

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is shut off.
- LED indication: The LED flashes in red.

| Category | | ED | Conter | nt | Unit's Operation | Warning Message |
|----------|----------|----------|-------------------------------------|----------------------------|-----------------------------------|---|
| Category | STB | ON | | | - | Warring Wessage |
| | | Once | Communication fa panel-drive IC | ilure of the | Shutdown 3 seconds after warning | Shutdown by circuit failure (01) |
| | | Twice | Communication fa module IIC | ilure of the | Shutdown 3 seconds after warning | Shutdown by circuit failure (02) |
| | | 3 times | Power decrease on DC-DC converter | f the digital | Immediate shutdown | |
| | | 4 times | Panel having high temperature | | Shutdown 30 seconds after warning | Shutdown by warning temperature rise (04) |
| | | 5 times | Audio failure | | Shutdown 3 seconds after warning | Shutdown by warning speaker failure (05) |
| | | 6 times | Communication fa module microcom | | Shutdown 3 seconds after warning | Shutdown by circuit failure (06) |
| SD | | 7 times | Main 3-wire serial communication in | failure | Shutdown 3 seconds after warning | Shutdown by circuit failure (07) |
| | | 8 times | Communication fa main IIC | ilure of the | Shutdown 3 seconds after warning | Shutdown by circuit failure (08) |
| | | 9 times | Communication fa main microcompu | | Immediate shutdown | |
| | | 10 times | Fan in failure | | Shutdown 3 seconds after warning | Shutdown by warning fan abnormality (10) |
| | | 11 times | Unit having higher temperature | | Shutdown 30 seconds after warning | Shutdown by warning temperature rise (11) |
| | | 13 times | Main microcompur power supply NG | ter ASIC | Immediate shutdown | |
| | | 14 times | Communication fa IF-EEPROM | ilure of | Shutdown 3 seconds after warning | Shutdown by circuit failure (14) |
| | | 15 times | Other failure | VCC-D1 VCC-D2 VCC-D4 | Shutdown 3 seconds after warning | Shutdown by circuit failure (15) |
| | Once | | | | | |
| | Twice | | Power | | Immediate power-down | |
| | 3 times | | SCAN | | Immediate power-down | |
| | 4 times | | SCAN-5V | | Immediate power-down | |
| | 5 times | | Y-DRIVE | | Immediate power-down | |
| | 6 times | | Y-DCDC | | Immediate power-down | |
| PD | 7 times | | Y-SUS | | Immediate power-down | |
| | 8 times | | ADDRESS | | Immediate power-down | |
| | 9 times | | X-DRIVE | | Immediate power-down | |
| | 10 times | | X-DCDC | | Immediate power-down | |
| | 11 times | | X-SUS | | Immediate power-down | |
| | 12 times | | DIGITAL-DCDC | dontifical\ | Immediate power-down | |
| | 15 times | | UNKNOWN (Not i | uentinea) * | Immediate power-down | |

^{*} If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

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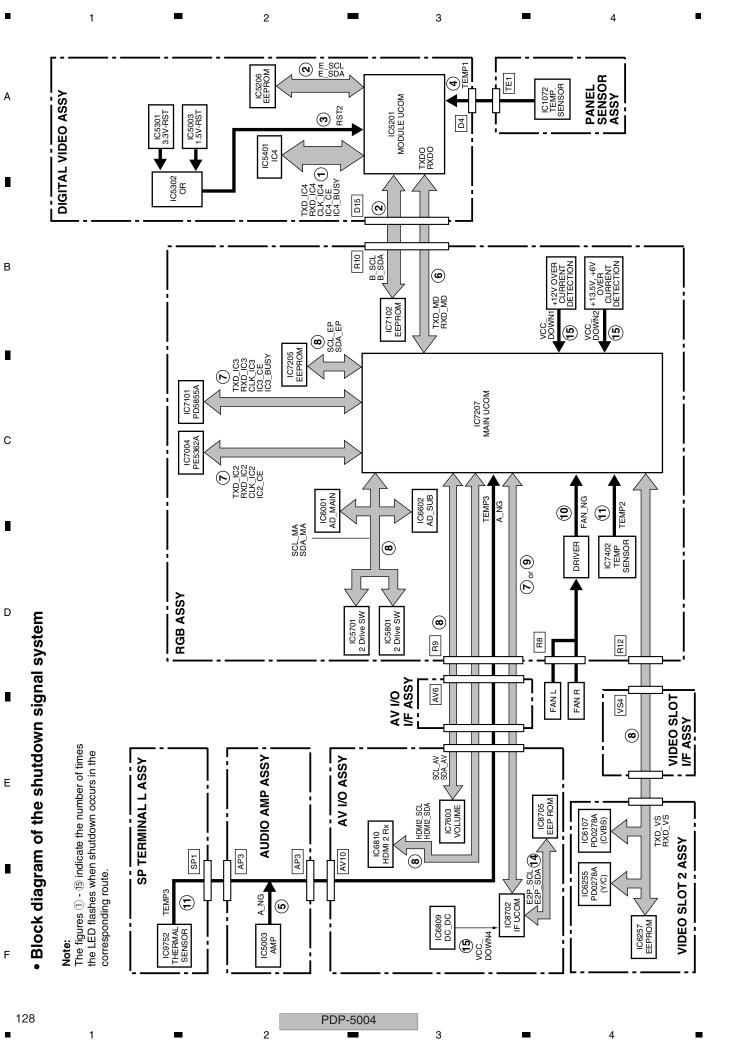
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Diagnosis of shutdown

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| ı | SD CITICUIT UPPERATION DESECTIVE ASSY | Delective Assy | Reason for Shutdown | Point to be Checked | Possible Defective Part | Hemarks |
|----|---|----------------|--|------------------------------|-------------------------|--|
| - | Communication failure of the | DIGITAL VIDEO | Communication failure of IC4 or defective peripheral circuits | IC4 Block, Panel Flash Block | IC5401, IC5305 | |
| | panel-drive IC | | Writing failure of IC4 | | | After turning the unit on again, check if the data on the version can be read with the GS1 command. |
| | Communication failure of the | DIGITAL VIDEO | Communication failure of the EEPROM (4k) or defective peripheral circuits | Module Ucom Block | IC5206 | |
| N | module IC (Check the shutdown subcategory on the Factory menu.) | RGB | Communication failure of the EEPROM (2k) or defective peripheral circuits | IC3 Block | IC7102 | |
| | | | Defective 114-pin FPC | CN400(D15) - CN7101(R10) | ADY1081 | Check if the cable is disconnected or not securely connected. |
| | | DIGITAL VIDEO | Defective DC-DC converter | Digital DD Control Block | U5601 | Check if 3.3V, 2.5V, and 1.5V are activated (not short-circuited). |
| က | Power decrease of DIGITAL- | DIGITAL VIDEO | Defective RST IC | Panel Flash Block | IC5301,IC5302,IC5303 | |
| | DC-DC | POWER SUPPLY | No startup of 12 V | | | |
| | | DIGITAL VIDEO | Disconnection of cable | CN5202 - CN1071 | | |
| 4 | Fanel naving nigner temperature | | Panel having higher temperature | Surrounding temperature | | Temperature detected by a sensor must not exceed 90°C (TEMP1). |
| | | | Speaker short-circuited | Speaker terminals | | Check if the speaker cables are in contact with the chassis, etc. |
| Ω. | Audio failure | AUDIO AMP | Defective AMP IC | Audio Amp | IC5003 | |
| | | AUDIO AMP | Disconnection of cable | CN7601(AV1) - CN5001(AP2) | | Check if the cable is disconnected or not securely connected. |
| | | DIGITAL VIDEO | Communication failure in the module microcomputer or defective peripheral circuits | Module Ucom Block | IC5201 | Check short/open of the communication line (TXDO/RXDO). |
| 9 | Communication failure of the | | Failure in writing in the module microcomputer | Module Ucom Block | IC5201 | |
| | module microcomputer | | Defective 114-pin FPC | CN4004(D15) - CN7101(R10) | ADY1081 | Check if the cable is disconnected or not securely connected. |
| | | AV I/O | Communication failure in the IF microcomputer or defective peripheral circuits | IF Ucom Block | IC8702 | Check short / open of the communication line (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF) |
| | Serial communication failure | RGB | Communication failure in the CELIA or defective peripheral circuits | IC2 Block | IC7004 | Check short / open of the communication line (TXD_IC2/RXD_IC2/CL_IC2) |
| | microcomputer | RGB | Communication failure in the MIKE or defective peripheral circuits | IC3 Block | IC7101 | Oheck short / open of the communication line (TXD_IC3/RXD_IC3/ |
| | | RGB | Failure in writing in the MIKE | IC3 Block | IC7101 | |
| | | VIDEO SLOT2 | Failure in MICHAEL Y/C or defective peripheral circuits IC1 (Y/C) Block | IC1 (Y/C) Block | IC6255 | |
| | | VIDEO SLOT2 | Failure in MICHAEL CVBS or defective peripheral circuits IC1 (CVBS) Block | IC1 (CVBS) Block | IC6107 | |
| | | RGB | Failure in AD MAIN or defective peripheral circuits | Main AD Block | IC6001 | |
| | | RGB | Failure in AD SUB or defective peripheral circuits | Sub LPF & AD Block | IC6602 | |
| ω | IIC communication failure of | RGB | Failure in ROZ or defective peripheral circuits | Bus SW1 Block | IC5701 | |
| | the main microcomputer (Confirm the SD subcategory) | RGB | Failure in ROZ or defective peripheral circuits | Bus SW2 Block | IC5801 | |
| | in the factory menu) | AV I/O | Failure in VOL IC or defective peripheral circuits | AV I/O Assy | IC7603 | |
| | | AV I/O | Failure in HDMI Rx IC or defective peripheral ciecuits IC6810 Block | IC6810 Block | IC6810 | |
| | | RGB | Failure in EEPROM or defective peripheral circuits | Main Ucom Block | IC7205 | |
| | | VIDEO SLOT2 | Failure in EEPROM or defective peripheral circuits | IC1 (Y/C) Block | IC6257 | |
| | | | Defective communication line between any of the above devices and the main microcomputer | | IC7207 | Check short / open of SCL_AV/SDA_AV, SCL_MA/SDA_MA and SCL_EP/SDA_EP |

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|---|--|-----|--|--|---|---|--|
| | | 2°C | | | | | |

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| | SD Circuit in C | Operation | SD Circuit in Operation Defective Assy | Reason for Shutdown | Point to be Checked | Possible Defective Part | Remarks |
|----|---------------------------------------|---------------|--|--|--|-------------------------|---|
| 6 | Communication failure in | ilure in | RGB | Communication failure in main microcomputer or defective peripheral circuits | Main Ucom Block | IC7207 | Check short / open of communication line (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF) |
| | main microcomputer | iter | RGB | Failure in writing in the main microcomputer | Main Ucom Block | IC7207 | |
| , | 1 1 1 1 1 | | FAN | Failure in the fan motor or fan stopped by attached dust | | | |
| 2 | ran tallure | | RGB | Disconnection of cable | Relay part between CN7402 (R8) and the wire from the fan | | Check if the cable is disconnected or not securely connected. |
| 7 | Unit having higher | _ | | Use under high temperature | Surrounding/internal temperature | | Temperature detected by a sensor must not exceed 65°C (TEMP3) /95°C (TEMP2) |
| = | terriperature | | AUDIO AMP | Disconnection of cable | CN5003(AP3) - CN9702(SP1) | | Check if the cable is disconnected or not securely connected. |
| 41 | Communication failure in IF EEPROM | | AV I/O | Communication failure in EEPROM or defective peripheral circuits | I/F Ucom Block | IC8705 | Check short / open of E2P_SC/JE2P_SDA |
| | | VCC-D1 | RGB | Defective circuits in the 12V system | | | Check for shortcircuits in the 12V system. |
| 15 | 15 Other failures | VCC-D2 | RGB | Defective circuits in the 13.5V and 6.5V systems. | | | Check for shortcircuits in the 13.5V and 6.5V systems. |
| | | VCC-D4 AV I/O | AV I/O | Defective circuits in the 3.3V system of HDMI 2. | | | Check for shortcircuits in the 3.3V system of HDMI 2. |

• Diagnosis of abnormalities other than shutdown and power-down

| Symptoms | Defective Assy | Abnormal Summary | Point to be Checked | Possible Defective Part | Remarks | $\overline{}$ |
|--|----------------|-------------------------------|------------------------------------|-------------------------|--|---------------|
| | | Disconnection of cable | CN7404 | | Check if the connection between the POWER SUPPLY and RGB assemblies is properly made. | |
| No power (LED unlit) | POWER SUPPLY | STB 3.3 V not started | CN7404(AV1)-11 pin | | | |
| | AV I/O | Defective IF microcomputer | IF Ucom Block | IC8702 | Check if the oscillation is normal (X8701 = 32 kHz, X8702 = 9.8 MHz) and if RESET is set to H (IC8703). | |
| No power (The LED remains lit in red and does not light in green.) | RGB | Defective main microcomputer | Main Ucom Block | IC7207 | If communication with the main microcomputer falls approx. $20\mathrm{seconds}$ after the AC power is on, the main microcomputer may be defective. | |
| No power (The LED remains lit in | | Detect Trap switch | CN7204 | | Check if the TRAP switch is secured in its position correctly. See "7.1.8 How to cancel the TRAP switch." | |
| red and dgreen.) | | Defective Trap switch | | ASG1089 | Check if the unit operates normally when the TRAP switch is canceled. See "7.1.8 How to cancel the TRAP switch." | |
| Key input not effective | | Disconnection of cable | CN4801 - CN9002 CN9001 - CN8702 | | Check if the cables are not connected or securely connected. | ı — |
| | | Disconnection of cable | CN4901 - CN8901 | | Check if the cable is not connected or securely connected. | |
| Hemote control unit not effective | IR RECEIVE | Defective IR receiver section | IR | U4901 | Check if a pulse is output when the key corresponding to Pin 3 of the CN4901 is pressed. | |
| Abnormality in a one-eighth area of | DIGITAL VIDEO | Defective IC4 | IC4 Block | IC5401 | Check if an abnormal area in the screen changes when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address. | |
| the screen | ADDRESS | | | | Check that an abnormal area in the screen does not change when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address. | |
| Abnormal screen (Data of every other dot are abnormal) | | Defective 114-pin FPC | CN7101 - CN5001 | ADY1081 | Check if the FPC is broken or not securely connected. | |

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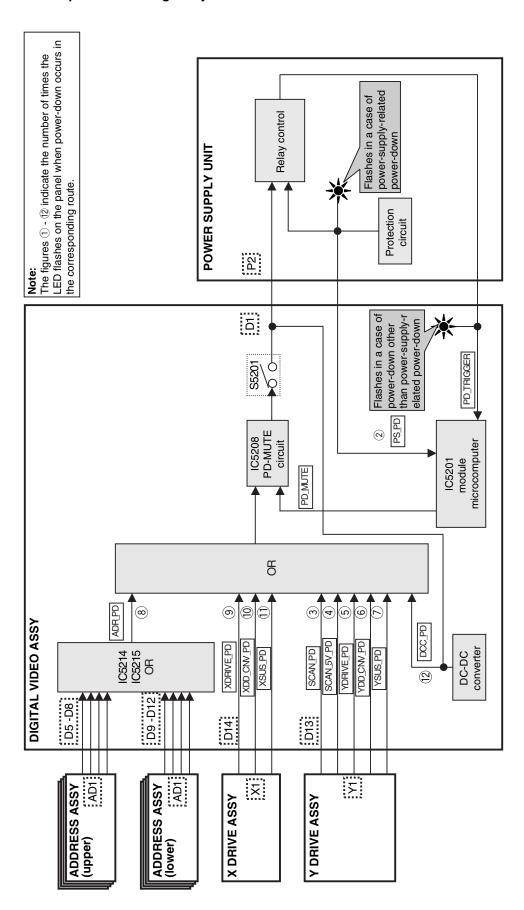
3 ■

• Block diagram of the power-down signal system

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| | PD Circuit in operation | Defective Assy | Reason for Power-down | Point to be Checked | Possible Defective Part | Remarks | Pov |
|-----|-------------------------|----------------------------|--|------------------------------------|--|---|----------------------|
| - | NONE | | | | | | ver |
| Ŋ | POWER | POWER SUPPLY Unit | | | | If the elapsed time from relay-on until the LED in the power supply unit lights is about 2-4 seconds, the defective assembly may be the 50 (43) X or Y DRIVE. | 1 -down d |
| | | 50 (43) X DRIVE Assy | VSUS UVP | X SUS BLOCK | IC1203 - IC1207 (mask module) | | iag |
| | | 50 (43) Y DRIVE Assy | VSUS UVP | Y SUS BLOCK | IC2303 - IC2307 (mask module) | | gno |
| | | 50 (43) SCAN A, B | VH UVP | SCAN IC | SCAN IC | | osis |
| ო | SCAN | Assy or Y 50 (43) DRIVE | VH UVP | VH DC/DC | IC2401, IC2402, IC2410, L2401 | | - s (c |
| | | Assy | Disconnection of cable detected | CN2001, CN2301 | | | lefe |
| | | 50 (43) SCAN A. B | Disconnection of cable detected | CN2101, CN2102 | | | ect |
| 4 | SCN-5V | Assy or 50 (43) Y DRIVE | IC5V UVP | SCAN IC, IC5V DC/DC Y SUS BLOCK | SCAN IC, Q2401, Q2402, IC2304, IC2309 | | ive p |
| | | Assy | IC5V OVP | IC5V DC/DC | IC2403, IC2411 | | 2 Oii |
| 5 | Y-DRIVE | 50 (43) Y DRIVE Assy | +16.5V OCP | Y SUS BLOCK | IC2303 - IC2307 (mask module), IC2301, IC2304, R2309 | | nts) |
| | | | VOFS UVP | VOFS DC/DC | IC2404, IC2412, Q2404, Q2407 | | |
| 9 | Y-DCDC | 50 (43) Y DRIVE Assy | VOFS OVP | VOFS DC/DC | IC2404, IC2412 | | |
| | | | VH OVP | лн DC/DC | IC2402, IC2410 | | |
| , , | SUS-Y | 50 (43) Y DRIVE Assy | Power-down caused by detection of middle-point voltage | Y RESONANCE BLOCK | O2202, Q2214, Q2205, Q2206, Q2208, Q2209, Q2211, Q2212, IC2201, IC2202, Control signal series resistors | | _ |
| | | DIGITAL VIDEO Assy | Power-down caused by detection of middle-point voltage | DIGITAL VIDEO Assy | IC5401, Control signal series resistors | | |
| | | | Disconnection of cable detected | CN1501 | | | |
| 8 | ADRS | 50 (43) ADDRESS | Power-down caused by detection of a power surge | ADR RESONANCE BLOCK | R1631, Q1601, D1602 | | 3 o te: 50 |
| | | Assy | Power-down caused by detection of middle-point voltage | ADR RESONANCE BLOCK | Q1602, C1609, D1606, D1607 | |) (43) ¹ |
| | | | Disconnection of cable detected | CN1001, CN1201 | | | *** A |
| 6 | X-DRIVE | 50 (43) X DRIVE Assy | +16.5V OCP | X SUS BLOCK | IC1203, IC1207 (mask module), IC1204, IC1206, R1230 | | ssy m |
| | | | VRN OCP | X SUS BLOCK | Q1205, R1226, R1251 | | ean |
| | | | VRN OVP | VRN DC/DC | IC1403, IC1404 | | s 50 |
| 9 | 10 X-DCDC | 50 (43) X DRIVE Assy | dyl i Ndy | VRN DC/DC | IC1402, IC1403, IC1404 | |) *** |
| | | | | X SUS BLOCK | Q1205, R1226, R1251 | | As |
| Ŧ | SUS-X | 50 (43) X DRIVE Assy | Power-down caused by detection of middle-point voltage | X RESONANCE BLOCK | Q1102, Q1103, Q1105, Q1106, Q1108, Q1109, Q1109, Q1101, Q1112, IC1101, IC1102, Control signal series resistors | | sy or 43 |
| | | DIGITAL VIDEO Assy | Power-down caused by detection of middle-point voltage | DIGITAL VIDEO Assy | IC5401, Control signal series resistors | OVP : Over Voltage Protection UVP : Under Voltage Protection | *** As |
| 12 | 12 DIG-DCDC | DIGITAL VIDEO Assy | DCDC +3.3V, +1.5V OVP | DC DC CONVERTER BLOCK | U5601 (DC DC CONVERTER Module) | OCP : Over Current Protection | ssy. |

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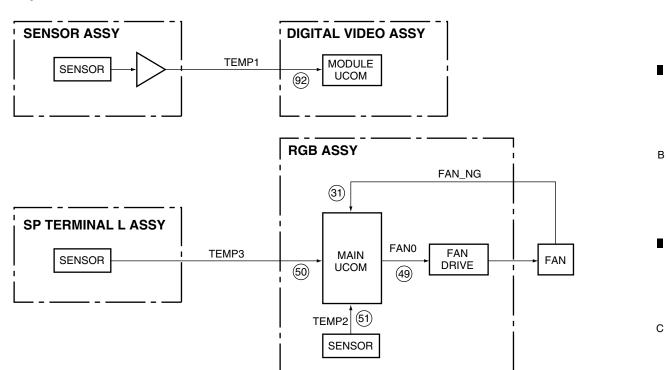
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7.1.3 PROCESSING AT THE TIME OF ABNORMALITIES

Fan and temperature sensor

Circuitry



Port monitoring specifications

| Port Name | Shutdown Name | Assign | Control Microcomputer | Active | Remarks |
|--------------|-----------------------------|--------|--------------------------|---|--|
| FAN_NG | FAN | 31 | Main | Shutdown when the signal becomes high | Disconnection of the fan connector or abnormality in operation of the fan detected |
| TEMP1 | Unit under high temperature | 92 | Module | Shutdown when | Monitoring high temperature of the panel, Drive system temperature compensation |
| TEMP2 | Unit under high temperature | 51 | Main | the set value is exceeded | Monitoring high temperature of boards |
| TEMP3 | Unit under high temperature | 50 | Main | | Monitoring ambient temperature |

7.1.4 TEMPERATURE COMPENSATION OF DRIVE SYSTEM VOLTAGE

Function: To control the DRIVE-system voltage according to the temperature (Temperature compensation functions such that the voltage is lowered on the lower-temperature side and the voltage becomes higher on the higher-temperature side.)

Purpose: For improving the yield by compensating for the temperature characteristics of the panel

Note: • Temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage. This compensation is controlled by the software.

• Temperature compensation is carried out with the value of TEMP1.

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7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: Only the power for the low voltage lines (16 V, 12 V, and 6.5 V) is on, and the power for the high voltage lines (VSUS, VADR) is off.

Usage: 1. Use when only an operational check for the low voltage lines is required, such as when making repairs.

2. Use when rewriting of a program for each microcomputer is required.

Methods: 1 Set the slide switch (S5201) on the DIGITAL VIDEO Assy to its upper position ("DRF" is mentioned on the board see Fig. below).

- 2. Send the "DRF" RS232C command to turn the large-signal system off.
- 3. Send the "DRN" RS232C command to turn the large-signal system on.

Notes:

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- As the unit enters Power-Down and Muting On mode when Methods 1 and 2 are performed, and power-downs other than those caused by the power (PS_PD) and DC-DC-converter (DIGITAL_DC-DC) circuits are not activated.
- If the slide switch is set from OFF to ON while the power is on, a power-down will occur. Be sure to turn the power off before switching the slide switch.
- Although the "DRF" RS232C command is enabled during Standby, if the power is turned on then turned off, the unit will return to "DRN" mode.

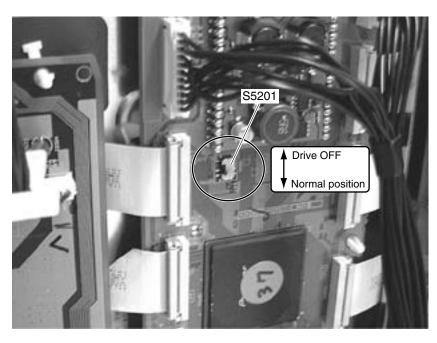


Fig. Drive OFF switch

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7.1.6 BACKUP THE ADJUSTMENT VALUES FOR THE MAIN UNIT

Outline

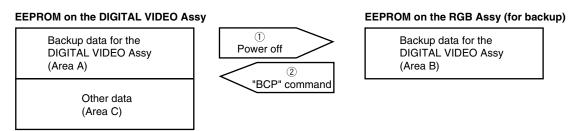
The data on the adjustment values for the main unit are stored in an EEPROM (IC5206, 4 kbits) on the DIGITAL VIDEO Assy. Part of the data (area A in the figure below) are automatically copied to an EEPROM (IC7102, 2 kbits) mounted on the RGB Assy for backup. When the DIGITAL VIDEO Assy is replaced, the backup data on the adjustment values for the main unit stored in the RGB Assy can be copied to the new DIGITAL VIDEO Assy, thus enabling you to omit newly performing adjustments on the main unit. The logs for the product (power-down log, etc.) can also be copied.

■ Data to be backed up in the digital EEPROM (area A)

- Margin adjustment values (Vsus, Vofset)
- Power upper-limit adjustment value (ABL)
- PANEL white-balance adjustment values (PANEL-R HIGH, PANEL-G HIGH, PANEL-B HIGH, PANEL-R LOW, PANEL-G LOW, PANEL-B LOW)
- Drive waveform adjustment values
 (X-SUS-U1, X-SUS-U2, X-SUS-D1, X-SUS-D2, Y-SUS-U1, Y-SUS-U2, Y-SUS-D1, Y-SUS-D2, Y-SUS-D3, Y-SUS-D4)
- · Hour meter
- · Pulse meter
- · Number of times the power has been turned on
- PD/SD logs

Basic flow of automatic backup

Using a keyword, the data in areas A and B are judged as to whether they have been adjusted or not, then copying is performed.

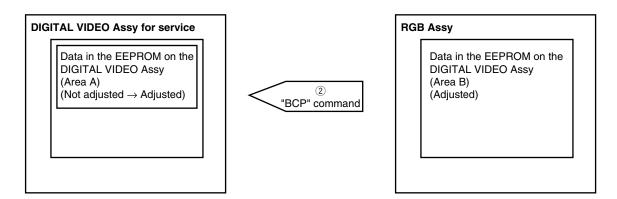


- ① The keyword on the DIGITAL VIDEO Assy is checked when the power is turned off, and if it is "adjusted", automatic backup is performed.
- ② If the keyword on the RGB Assy (Area B) is "adjusted," copying can be performed with the "BCP" RS232C command.

Actual automatic backup operations

1. When the DIGITAL VIDEO Assy is replaced with an Assy for service

Changing of keywords is not required. Replace the DIGITAL VIDEO Assy with an Assy for service, and send the "BCP" RS232C command. Thus, the backup data in the EEPROM on the RGB Assy are copied to the EEPROM on the DIGITAL VIDEO Assy for service.



2. When a repaired DIGITAL VIDEO Assy is mounted on another unit (reuse of the repaired DIGITAL VIDEO Assy)
The keyword of the DIGITAL VIDEO Assy to be reused must be changed to "not adjusted" using the "UAJ" RS232C command.

Note 1: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, and the power to the unit 2 is turned off, the data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area B of the RGB Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

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- 3. When a repaired DIGITAL VIDEO Assy is mounted on the original unit (reuse of the repaired DIGITAL VIDEO Assy)
 Changing of keywords is not required. After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values.
- 4. When both the DIGITAL VIDEO Assy and RGB Assy are simultaneously replaced with other assemblies. The automatic backup function of this unit will not work properly.
- Note 2: Readjustment of the main unit is required.
- Note 3: After readjustment of the main unit, send the "FAJ" RS232C command to change the keyword of the DIGITAL VIDEO Assy to "adjusted." Thus, when the unit is turned off, automatic backup of adjustment data is performed properly.
 - Note 4: If readjustment of the main unit is totally impossible, it can be omitted by installing the EEPROM (IC5206, 4 kbits) originally mounted on the DIGITAL VIDEO Assy for service.
 - Note 5: After copying the backup data, turn the power off then back on to reflect the copied backup data.

Miscellaneous

If the white balance (W/B) value is largely shifted because of aging, etc., W/B adjustment is required. (As this may be a rare case, the adjustment procedures are described below, just for your reference.

[W/B-adjustment procedures]

The W/B adjustment can be performed with the RS232C commands. Minolta CA-100 color difference meter are required.

- ① Send the "FAY" RS232C command to enter Factory mode.
- ② Set the keyword for the DIGITAL VIDEO Assy to "not adjusted" with the "UAJ" RS232C command.
- 3 Obtain the current adjustment values in the two adjustment tables (see "6.6 Command Description").
 - Shifting to Table 1: Send the "M51" and "F60" commands. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "M51" and "F75" commands. Obtaining the adjustment values: Send the "GPW" command.
- 4 For each table, set the brightness.
 - Adjustment in Table 1: After sending the "F60" command, perform adjustment.
 - Adjustment in Table 2: After sending the "F75" command, perform adjustment.

For each table, change the RGB parameters so that the values measured using a Minolta color difference meter (CA-100) become as indicated below. In this case, any one of PRH, PGH, or PBH must be set to 256.

| | Cd/mm |
|---|-------|
| х | 285 |
| У | 289 |

"PRH***" : 000 - 511 "PGH***" : 000 - 511 "PBH***" : 000 - 511

- 5 Check after adjustment
 - Shifting to Table 1: Send the "F60" command. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "F75" command. Obtaining the adjustment values: Send the "GPW" command. Check that the adjustment data have been changed.
- © Change the keyword for the DIGITAL VIDEO Assy to "adjusted" by sending the "FAJ" RS232C command.
 Note: Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product of the
 - **Note:** Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product cannot be assured.
- Send the "FAN" RS232C command to enter Normal mode.
 - If the value is different from that you set, readjust it.

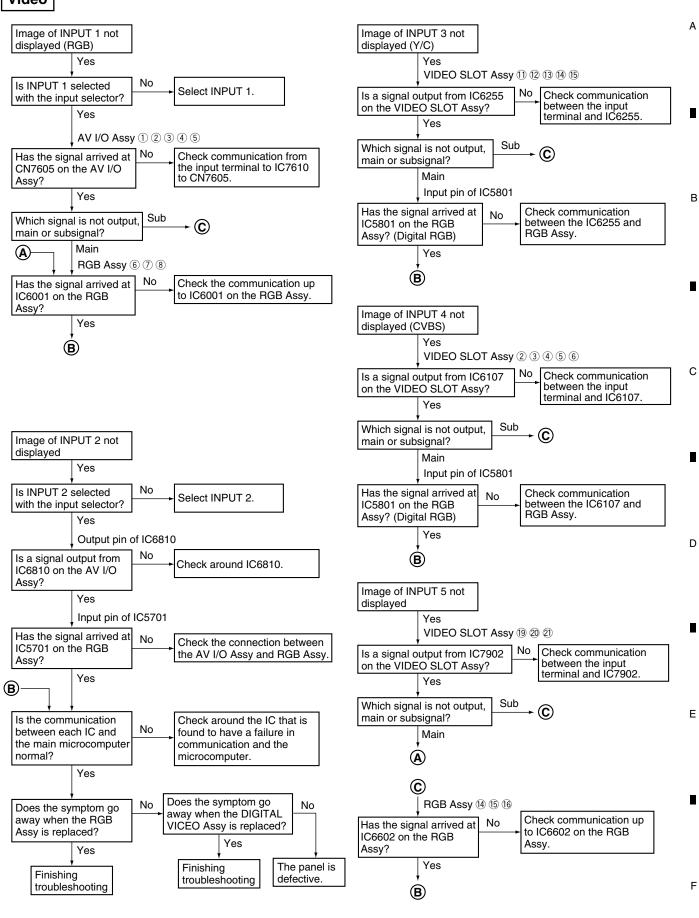
Note: To reset the adjustment to its original value, send the "BCP" RS232C command then turn the power off then back on to retrieve the backup data.

• The setting values for color temperature differ between Factory mode and Normal mode. Therefore, the setting value for color-difference signals in Normal mode are different from those in Factory mode, even after the White Balance adjustment has been performed.

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Audio No sound from the speakers Α Yes Are the SP cables Connect the SP cables properly connected? properly then check again. Is sound muting set? Cancel muting then check again. Is the volume set to 0? Raise the volume then check again. В Yes AUDIO AMP Assy 2 3 Is a signal output from IC5003 Yes Check the connection between on the AUDIO AMP Assy? the AUDIO AMP Assy and the SP Terminal Assy. No AUDIO AMP Assy 1 Has the signal arrived at IC5003 Yes Check around IC5003. on the AUDIO AMP Assy? No AV I/O Assy 12 Check around IC7605, IC7606, Is a signal output from IC7603 and IC7607 on the AV I/O Assy, on the AV I/O Assy? and the connection between the AV I/O Assy and AUDIO AMP Assy. Is communication between Has the signal arrived at Yes No IC7603 and the micro-Check the communication line. IC7603 on the AV I/O Assy? computer OK? No Yes Check around the IC7603. AV I/O Assy 11 Is a signal output from IC7601 No Check the communication on the AV I/O Assy? between IC7601 and IC7603. Yes Is IC7601 on the AV I/O Assy No Check the control line from properly controlled by the the microcomputer. microcomputer? Yes Check the communication between each input terminal and IC7601.

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7.1.8 CANCELING DETECTION BY THE TRAP SWITCH

Canceling detection by the TRAP switch

Outline: For video data transmission from the HDMI input to the plasma display, digital signals are used. Therefore, this unit adopts the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a

detection switch (TRAP switch) that will prohibit the unit from being turned on again if the rear case of the unit is opened, in order to prevent the panel technology from being leaked out.

Function: To deactivate the detection of the TRAP switch

Purposes: 1. During production of this unit, adjusting with the rear cover opened is possible.

2. During servicing or repairing, diagnoses of the assemblies are possible while the power is on.

Methods: For setting, use RS232C commands:

TSN: Ignore the monitoring of the switch CTM: Clear the detection log of the switch TSY: Reactivate monitoring of the switch

Notes:

- The TRAP switch is located on the chassis (see Fig. below).
- Once rear case opening is detected, send the TSN and CTM commands.
- Because the TSN command is not stored in memory, monitoring of the switch can be reactivated by turning the unit off then back on.
- The same setting is possible using the Factory menu.

• How to enter Factory mode using the remote control unit

Please refer to the technical documentation (Service knowhow).

How to clear the detection log of the TRAP switch

In the INITIALIZE layer, hold the OSD key on the remote control unit pressed for at least 3 seconds.

After a power-down, to cancel detection of the TRAP switch using only the remote control unit, follow the procedures below.

First, fix the TRAP switch to its depressed position. Set the drive ON/OFF switch in the DIGITAL VIDEO Assy to OFF, Then enter the Factory mode. Press the MUTE key five times, then hold the DISPLAY key pressed for at least 4 seconds. Set the AC switch on the panel to OFF. The log is also cleared. Then set the drive ON/OFF switch to ON.

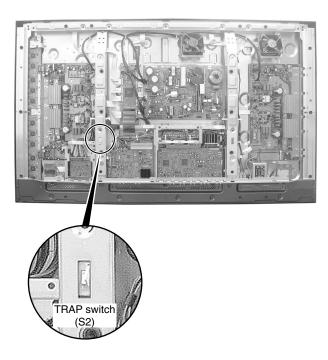


Fig. TRAP switch

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7.1.9 DISASSEMBLY

• PDP-5004, PDP-5014 models

1 Rear Case, Front Case Assy

(1) Remove the grip by removing the four screws. Note:

When reattaching the grip, be sure to securely tighten the screws.

(2) Remove the six screws.

Remove the seventeen screws.

Note:

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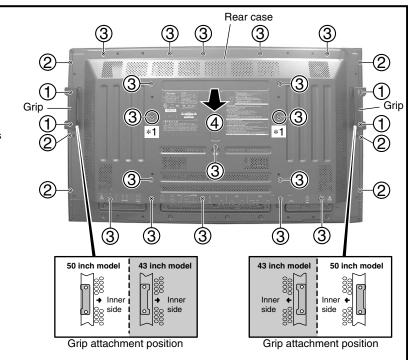
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When reattaching the rear case, first attach the screws for the holes indicated with *1 to place the rear case in the correct position.

(4) Remove the rear case.



(5) Remove the three screws.

(6) Remove the one rivet.

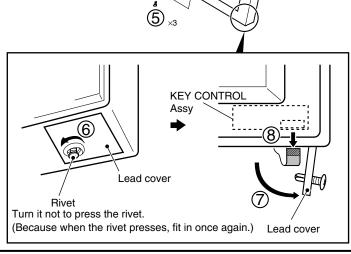
(7) Remove the lead cover.

(8) Disconnect the flexible cable.

(9) Remove the front case Assy.

Note:

If only the front case Assy must be removed, without removing the rear case, perform the steps 5 to 9.





Front case Assy

9-1

Diagnosis of AV I/O Assy

- (1) Remove the Three screws.
- (2) Remove the two hexagon head screws.
- (3) Remove the one screw.
- ig(4) Remove the one pin grommet.
- (5) Remove the AV I/O Assy with the AV I/O I/F Assy.

- (6) Remove the AV I/O Assy from the AV I/O I/F Assy.
- (7) Connect the AV I/O Assy to slot of the RGB Assy.



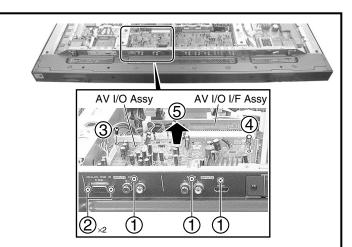
The cooling fan may rotate during diagnosis, in the following cases:

- · When the rotation speed of the fan has been set to maximum for Integrator mode
- When the ambient temperature surrounding the temperature sensor is 35°C or higher

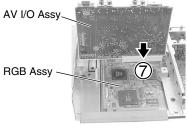
Removing Multi Base Section

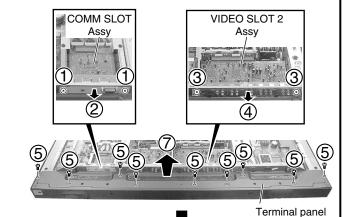
- $m{(1)}$ Remove the two Torque screws.
- (2) Remove the COMM SLOT Assy.
- (3) Remove the two Torque screws.
- (4) Remove the VIDEO SLOT 2 Assy.
- (5) Remove the nine screws.
- 6 Disconnect the some connectors at need.
- (7) Remove the terminal panel.
- (8) Remove the two screws.
- (9) Disconnect the some connectors at need.
- (10) Remove the multi base section.

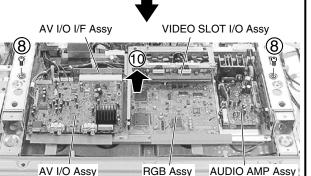
Some tiny metal shavings may be released from the paring screw section when the VIDEO SLOT I/F Assy is detached from the sheet metal and is reattached to it. Be sure to clear away any shavings or other foreign matter before reattaching it to the RGB













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X CONNECTOR A and B Assy

(1) Remove the enclosure sheet 1.

Note: -

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Enclosure sheet 1 is attached to comply with the safety standards. Make sure that it will not be shifted or peeled off. If it is peeled off, securely reattach it in its original place.

- (2) Remove the jumper wire by removing the flat clamp.
- (3) Remove the one nyron rivet.
- (4) Remove the one screw.

Note: Be sure to remove this screw. If you don't, the connector on the LED Assy may be damaged.

- (5) Remove the LED Assy.
- Remove the front chassis VR (50M) by removing the five screws.
- (7) Remove the eight screws.
- f 8 Remove the X CONNECTOR A and B Assy.

Note when reassembling the front chassis VR (50M)

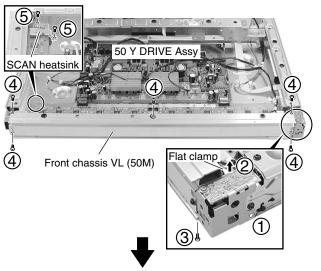
Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.

Front chassis VR (50M) Flat clamp Enclosure sheet 1 50 X DRIVE Assy LED Assy 8

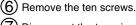
X CONNECTOR B Assy

● 50 SCAN A and B Assy

- (1) Remove the one nylon rivet.
- \bigcirc Remove the jumper wire by removing the flat clamp.
- (3) Remove the one screw.
- Remove the front chassis VL (50M) by removing the five screws.
- \bigcirc Remove the SCAN heatsink by removing the two screws.



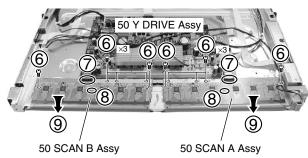
X CONNECTOR A Assy



- Disconnect the two pin connectors.
- (8) Remove the two spacers.
- 9 Remove the 50 SCAN A and B Assy.

Note when reassembling the front chassis VL (50M)

Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.



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1 Rear Case, Front Case Assy

 $\left(1\right)$ Remove the grip by removing the four screws.

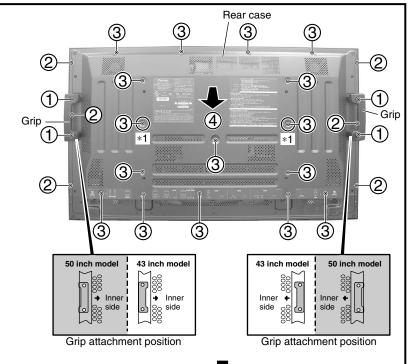
When reattaching the grip, be sure to securely tighten the screws.

- (2) Remove the six screws.
- (3) Remove the sixteen screws.

Note:

When reattaching the rear case, first attach the screws for the holes indicated with *1 to place the rear case in the correct position.

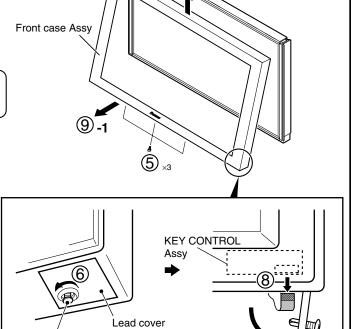
(4) Remove the rear case.



- (5) Remove the three screws.
- (6) Remove the one rivet.
- (7) Remove the lead cover.
- 8 Disconnect the flexible cable.
- (9) Remove the front case Assy.

✓ Note:

If only the front case Assy must be removed, without removing the rear case, perform the steps 5 to 9.



(Because when the rivet presses, fit in once again.) Lead cover



Rivet Turn it not to press the rivet.

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2 Multi Base Section

Diagnosis of AV I/O Assy

- (1) Remove the three screws.
- (2) Remove the two hexagon head screws.
- (3) Remove the one screw.
- (4) Remove the one pin grommet.
- (5) Remove the AV I/O Assy with the AV I/O I/F Assy.

(6) Remove the AV I/O Assy from the AV I/O I/F Assy.

Connect the AV I/O Assy to slot of the RGB Assy.



Note:

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The cooling fan may rotate during diagnosis, in the following cases:

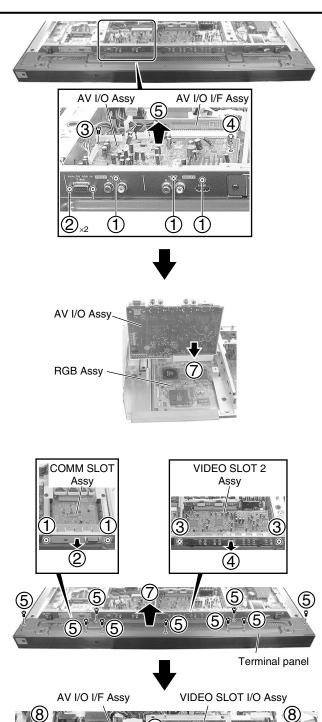
- When the rotation speed of the fan has been set to maximum for Integrator mode
- When the ambient temperature surrounding the temperature sensor is 35°C or higher

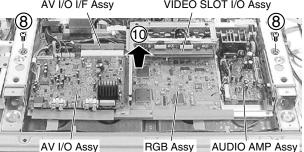
Removing Multi Base Section

- $(\mathbf{1})$ Remove the two Torque screws.
- (2) Remove the COMM SLOT Assy.
- (3) Remove the two Torque screws.
- (4) Remove the VIDEO SLOT 2 Assy.
- (5) Remove the nine screws.
- (6) Disconnect the some connectors at need.
- $\overline{7}$ Remove the terminal panel.
- 8 Remove the two screws.
- (9) Disconnect the some connectors at need.
- (10) Remove the multi base section.

Note:

Some tiny metal shavings may be released from the paring screw section when the VIDEO SLOT I/F Assy is detached from the sheet metal and is reattached to it. Be sure to clear away any shavings or other foreign matter before reattaching it to the RGB Assy.





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● X CONNECTOR A and B Assy

 \bigcirc Remove the enclosure sheet 1.

Note:

Enclosure sheet 1 is attached to comply with the safety standards. Make sure that it will not be shifted or peeled off. If it is peeled off, securely reattach it in its original place.

- \bigcirc Remove the jumper wire by removing the flat clamp.
- (3) Remove the one nylon rivet.
- (4) Remove the one screw.

Note: Be sure to remove this screw. If you don't, the connector on the LED Assy may be damaged.

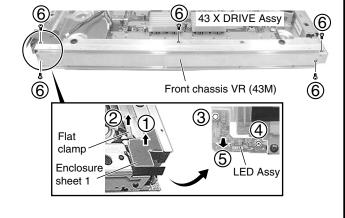
- (5) Remove the LED Assy.
- Remove the front chassis VR (43M) by removing the five screws.
- (7) Remove the six screws.
- (8) Remove the X CONNECTOR A and B Assy.

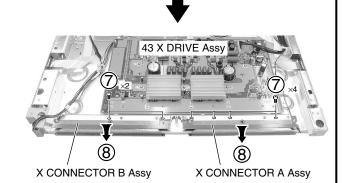
Note when reassembling the front chassis VR (43M)

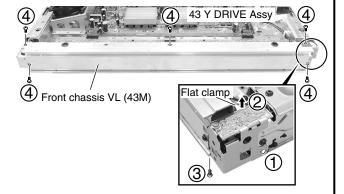
Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.

43 SCAN A and B Assy

- (1) Remove the one nylon rivet.
- (2) Remove the jumper wire by removing the flat clamp.
- (3) Remove the one screw.
- Remove the front chassis VL (43M) by removing the five screws.



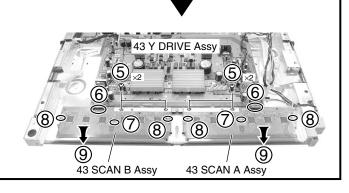




- (5) Remove the four screws.
- (6) Disconnect the two pin connectors.
- (7) Remove the two spacers.
- 8 Remove the four spacers.
- (9) Remove the 43 SCAN A and B Assy.

Note when reassembling the front chassis VL (43M)

Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.



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7.2 IC INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

List of IC

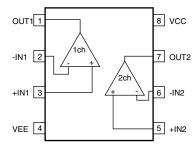
BA10393F, BA10358F, STK795-512, STK795-513, STK795-510, STK795-511, AN16003A, SN755864APZP, MBM29PL160BD-75PFTN, M30626FHPGP-P, PD5856A, AN5870SB, AD9883AKST-110, SM5301BS, BA7078AF, IC42S32200-7TG-K, MBM29PL3200BE70PFV, CXA3516R, SII9993CTG100, IC42S16100-7TG-K, LA4625

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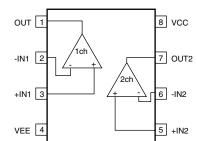
■ BA10393F (50 X DRIVE ASSY : IC1103), (43 X DRIVE ASSY : IC1103) (50 Y DRIVE ASSY : IC2211), (43 Y DRIVE ASSY : IC2211)

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- Comparator IC
- Pin Arrangement (Top View) / Block Diagram



- BA10358F (50 Y DRIVE ASSY : IC2406), (43 Y DRIVE ASSY : IC2406)
 - Ope-Amp. IC
- Pin Arrangement (Top View) / Block Diagram



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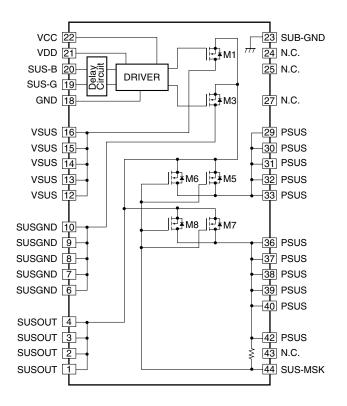
STK795-512 (50 X DRIVE ASSY : IC1203, IC1207)

6

• PDP Mask Module IC

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Block Diagram

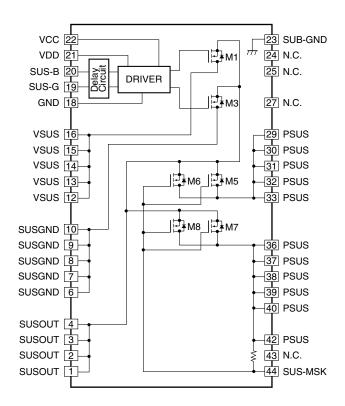


■ STK795-513 (50 Y DRIVE ASSY : IC2303, IC2307)

• PDP Mask Module IC

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Block Diagram



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■ STK795-510 (43 X DRIVE ASSY: IC1203, IC1207)

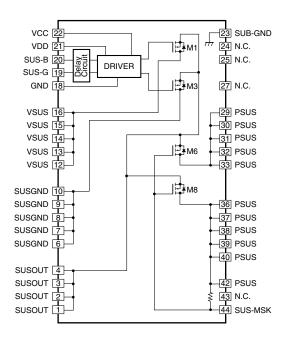
- PDP Mask Module IC
- Block Diagram

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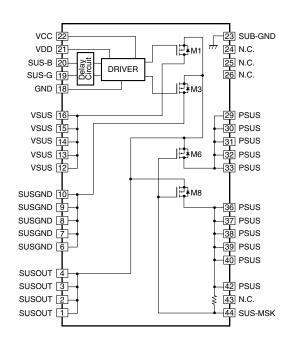
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■ STK795-511 (43 Y DRIVE ASSY: IC2303, IC2307)

- PDP Mask Module IC
- Block Diagram



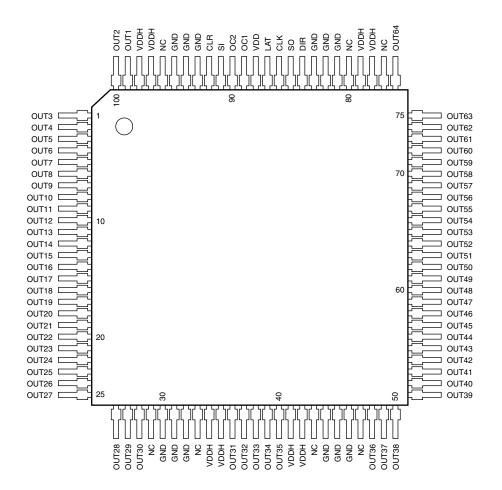
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■ AN16003A (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY: IC3201 - IC3206)

• Plasma Display Panel IC

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• Pin Arrangement (Top View)



Pin Function

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| No. | Pin Name | Туре | Function | | | |
|-----|----------|--------|-----------------------------------|--|--|--|
| 1 | OUT3 | | | | | |
| 2 | OUT4 | | | | | |
| 3 | OUT5 | | | | | |
| 4 | OUT6 | | | | | |
| 5 | OUT7 | Outro | High-voltage push-pull output pin | | | |
| 6 | OUT8 | Output | | | | |
| 7 | OUT9 | | | | | |
| 8 | OUT10 | | | | | |
| 9 | OUT11 | | | | | |
| 10 | OUT12 | | | | | |

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No. Pin Name **Function** Type 11 OUT13 OUT14 12 OUT15 13 14 OUT16 15 OUT17 16 OUT18 17 OUT19 OUT20 18 19 OUT21 Output High-voltage push-pull output pin 20 OUT22 21 OUT23 22 OUT24 23 OUT25 24 OUT26 25 OUT27 26 OUT28 OUT29 27 28 OUT30 N.C Not connected 29 30 GND 31 GND Ground Ground pin GND 32 33 N.C Not connected **VDDH** Supply High-voltage circuit supply pin 35 **VDDH** OUT31 OUT32 37 38 OUT33 Output High-voltage push-pull output pin 39 OUT34 40 OUT35 **VDDH** Supply High-voltage circuit supply pin 42 **VDDH** N.C 43 Not connected 44 GND 45 GND Ground Ground pin 46 GND 47 N.C _ Not connected 48 OUT36 49 OUT37 OUT38 50 51 OUT39 OUT40 53 OUT41 54 OUT42 Output High-voltage push-pull output pin 55 OUT43 56 OUT44 57 OUT45 OUT46 OUT47 59 OUT48

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| No. | Pin Name | Туре | Function |
|-----|----------|----------------|--|
| 61 | OUT49 | | |
| 62 | OUT50 | 1 | |
| 63 | OUT51 | 1 | |
| 64 | OUT52 | 1 | |
| 65 | OUT53 | 1 | |
| 66 | OUT54 | | |
| 67 | OUT55 | 1 | |
| 68 | OUT56 | 1 | |
| 69 | OUT57 | Output | High-voltage push-pull output pin |
| 70 | OUT58 | | |
| 71 | OUT59 | | |
| 72 | OUT60 | 1 | |
| 73 | OUT61 | 1 | |
| 74 | OUT62 | 1 | |
| 75 | OUT63 | | |
| 76 | OUT64 | 1 | |
| 77 | N.C | _ | Not connected |
| 78 | VDDH | | |
| 79 | VDDH | Supply | High-voltage circuit supply pin |
| 80 | N.C | _ | Not connected |
| 81 | GND | | |
| 82 | GND | Ground | Ground pin |
| 83 | GND | | |
| 84 | DIR | Input | Setup pin of sift register sift direction L: Shift into reverse (SO \rightarrow SI) H: Shift forward (SI \rightarrow SO) |
| 85 | so | Input / Output | Serial data input/output pin |
| 86 | CLK | Input | Serial clock input pin Fetch SI or SO data to sift register by CLK rise edge |
| 87 | LAT | Input | LAT data input pin L: Transfer shft register data to output latch H: Hold data to output latch |
| 88 | VDD | Supply | Logic supply pin |
| 89 | OC1 | | Output control pin |
| 90 | OC2 | Input | Control output according to the right truth value table L H DATA H L ALL L H H ALL H |
| 91 | SI | Input / Output | Serial data input/output pin |
| 92 | CLK | Input | All output reset pin CLK pin: $L \rightarrow Normal$ operation CLK pin: $H \rightarrow All$ output High |
| 93 | GND | | |
| 94 | GND | Ground | Ground pin |
| 95 | GND |] | |
| 96 | N.C | _ | Not connected |
| 97 | VDDH | Committee | High veltage signiff graphy pin |
| 98 | VDDH | Supply | High-voltage circuit supply pin |
| 99 | OUT1 | O. stm : st | High voltage push pull output pin |
| 100 | OUT2 | Output | High-voltage push-pull output pin |

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PDP-5004

■ SN755864APZP (43 SCAN A ASSY : IC3001 - IC3006) (43 SCAN B ASSY : IC3201 - IC3206)

• Plasma Display Panel IC

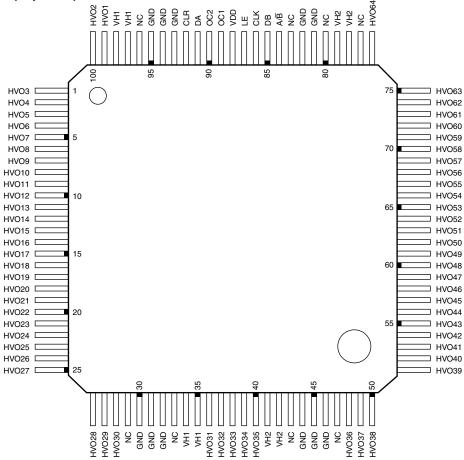
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• Pin Arrangement (Top View)



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Pin Function

| Pin | Pin Name | I/O | Function |
|-------------------------|------------|-----|---|
| 86 | CLK | I | Shift clock (rising edge valid) |
| 91 | DA | I/O | Serial data input/output of shift register |
| 85 | DB | I/O | Serial data input/output of shift register |
| 92 | CLR | I | High-level clears data of shift register |
| 87 | LE | 1 | Low-level: through, High-level: latch |
| 84 | A/B | 1 | Shift direction control signal of shift register |
| 89 | OC1 | - 1 | HVO output control |
| 90 | OC2 | - 1 | HVO output control |
| 1-28,36-40,48-76,99,100 | HVO1-HVO64 | 0 | High-voltage drive output (HVO1 to HVO64) |
| 88 | VDD | - | Logic supply |
| 30-32,44-46,81,82,93-95 | GND | _ | GND for logic circuits Common to HVO1 to HVO64. |
| 34,35,97,98 | VH1 | _ | Common high voltage power supply for HVO1 to 32. |
| 41,42,78,79 | VH2 | _ | Common high voltage power supply for HVO33 to 64. |
| 29,33,43,47,77,80,83,96 | NC | _ | Electrically isolated |

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Block Diagram

DQ₀ to DQ₁₅ Vcc — Vss ___ Erase Voltage Generator Input/Output Buffers WE-State Control BYTE Command Register Program Voltage Generator Chip Enable Output Enable STB Data Latch Logic CE ŌE -Y-Gating Y-Decoder STB Timer for Program/Erase Low Vcc Detector Address Latch X-Decoder Cell Matrix A_0 to A_{19} **A**-1

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■ M30626FHPGP-P (DIGITAL VIDEO ASSY : IC5201)

• PDP μCOM
• Pin Function

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| No. | Io. Pin Name Function | | I/O | ACTIVE |
|---|-----------------------|---|---------------|--------|
| 1 | VSUS | [D/A] Vofs power control | 0 | |
| 2 | VOFS | [D/A] Vofs power control | 0 | |
| 3 | TXD_IC4 | 3 serial communication with IC4MANTA - data transmission | 0 | |
| 4 | RXD_IC4 | 3 serial communication with IC4MANTA - data receive | I | |
| 5 | CLK_IC4 | 3 serial communication with IC4MANTA - clock output | 0 | |
| 6 | BYTE | (GND connection) | ı | |
| 7 | CNVSS | Pin for processor mode setting (pull-down) | I | |
| 8 | NC | NC pin | | |
| 9 | NC | NC pin | | |
| 10 | RST_MD | Reset input | | L |
| 11 | XOUT | Output for main clock | 0 | _ |
| 12 | VSS | GND | _ | _ |
| 13 | XIN | Input for main clock | | _ |
| 14 | VCC1 | Power supply = STB3.3V | _ | _ |
| 15 | NMI | (pull-up) | ı | |
| 16 | REM_B | (Interruption) Remote control signal input (in the panel unit) | l i | |
| 17 | KEY_B | (Interruption) Key signal input (in the panel unit) | <u>·</u> i | |
| 18 | RST2 | (Interruption) IC4 reset detection | <u>'</u> l | L |
| 19 | HD_IN_B | HD signal existence distinction | <u>·</u> | L |
| 20 | PD_MUTE | Mute the power down output to the POWER SUPPLY Unit | 0 | L |
| 21 | PS_PD | PD signal in the POWER SUPPLY Unit | | H |
| 22 | DCC_PD | PD signal of DC-DC converter | <u>'</u> | H |
| 23 | NC | NC pin | <u>!</u> | !! |
| <u>23 </u> | NC | NC pin | | |
| 2 4 25 | VD_IN | - | ı | L |
| 26 26 | EEPRST | V. frequency count EEPROM power SW | 0 | Н |
| 20 <u> </u> | E_SCL | IIC clock output for EEPROM | 0 | 11 |
| 28 | E_SDA | IIC data I/O for EEPROM | 1/0 | |
| | | | | + |
| 29 | TXD | Communication with flash ROM writer - data transmission | <u> </u> | |
| 30 | RXD SCLK | Communication with floah ROM writer - data receive | <u>'</u> | |
| | | Communication with flash ROM writer - clock input | - | |
| 32 | BUSY | Communication with flash ROM writer - busy output | 0 | |
| 33 | TXD0 | UART communication with main UCOM (external PC) - data transmission | 0 | |
| 34 | RXD0 | UART communication with main UCOM (external PC) - data receive | ı | |
| 35 | NC BEO MD | NC pin | | 11 |
| 36 | REQ_MD | Communication request to the main UCOM | 0 | Н |
| 37 | PSW_D | Mute of DC-DC converter | 0 | H |
| 38 | WE_IC4 | In IC4 (MANTA) rewriting, control for communication path switch | 0 | Н |
| 39 | EPM POT | Setting pin for flash rewriting mode (pull-down) | <u> </u> | |
| 40 | IC4_RST | IC4 forced reset | 0 | L L |
| 41 | IC4_CE | Enable for IC4 communication | 0 | L L |
| 42 | IC4_BUSY | Busy input for IC4 communication | <u> </u> | H |
| 43 | REQ_IC4 | Communication request from the IC4 | <u> </u> | H |
| 44 | CE | Setting pin for flash rewriting mode (pull-up) | <u>!</u> | |
| 45 | PSIZE | Panel size distinction | <u> </u> | |
| 46 | B_SCL | IIC clock output for backup EEPROM | 0 | Н |
| 47 | B_SDA | IIC DATA I/O for backup EEPROM | I/O | Н |
| 48 | ADR_PD | PD signal of address junction | l | Н |
| 40 | LED_G | Green LED control | 0 | L |
| 49 50 | LED_R | Red LED control | 0 | _ |

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| No. | Pin Name | Function | 1/0 | ACTIVE |
|-----|--------------|--|--------------|--------------|
| 51 | DRV_OFF | Driving OFF | 0 | Н |
| 52 | RELAY | Power ON control output | 0 | Н |
| 53 | POWER | Power ON control input | ı | Н |
| 54 | MR_ST_B | MDR connection detection | ı | L |
| 55 | OP_DET | Rear case open detection | ı | |
| 56 | NC | NC pin | • | |
| 57 | PNL_MUTE | Panel mute | 1 | |
| 58 | DITHER | PC/VIDEO dither switch (panel module exclusive use) | <u>.</u> | |
| 59 | NC | NC pin | • | |
| 60 | VCC2 | Power supply = STB 3.3V | | + |
| 61 | PD_TRG | PD detection | 1 | L |
| 62 | VSS | GND | <u> </u> | + - |
| 63 | VH_PD | Vh power decrease PD | | Н |
| 64 | YDRV_PD | Y drive PD signal | <u>'</u> | H H |
| 65 | YRES_PD | Y drive PD signal | <u>.</u> | H H |
| 66 | YDCDC_PD | PD signal of Y drive DC-DC converter | <u>!</u> | H |
| | | | <u> </u> | |
| 67 | IC5V_PD | 5V power decrease PD | <u> </u> | H |
| 68 | XSUS_PD | X drive PD signal | <u> </u> | H |
| 69 | XDCDC_PD | PD signal of X drive DC-DC converter | <u> </u> | H |
| 70 | XDRV_PD | X drive PD signal | l | H |
| 71 | NC | NC pin | | <u> </u> |
| 72 | MR_AC | MR power monitor | <u> </u> | H |
| 73 | AC_DET | AC power monitor at panel side (same signal as CST1) | <u> </u> | L |
| 74 | DVI_MUTE | Mute of panel link output | 0 | H |
| 75 | A_MUTE | Audio mute | 0 | Н |
| 76 | A_NG | Audio NG detection | ļ | L |
| 77 | A_SCL | IIC clock output for audio/others | 0 | L |
| 78 | A_SDA | IIC data I/O for audio/others | I/O | L |
| 79 | TRUBASS | TRUBASS ON/OFF | 0 | Н |
| 80 | STB_SW | Standby setting of audio amp. | 0 | L |
| 81 | FOCUS | FOCUS ON/OFF | 0 | Н |
| 82 | SRS | SRS ON/OFF | 0 | Н |
| 83 | DDC_WP | DDCROM write protection | 0 | Н |
| 84 | DVI_DET | DVI cable disconnection detection | I | Н |
| 85 | RSTBTMDS | Reset detection of panel link receiver | I | L |
| 86 | L_SYNC | DE omission detection of the panel link | I | L |
| 87 | NC | NC pin | | |
| 88 | NC | NC pin | | |
| 89 | MASK1 | [A/D] Mask display setting | I | |
| 90 | MAX_PLS2 | [A/D] Brightness setting for panel module | I | |
| 91 | MAX_PLS1 | [A/D] Brightness setting for panel module | I | |
| 92 | TEMP | [A/D] AD input for temperature sensor | <u> </u> | |
| 93 | MODE | [A/D] Operation mode setting | <u>·</u> | |
| 94 | AVSS | GND for A/D input | <u> </u> | _ |
| 95 | MODEL | [A/D] CMX/HD/TV/WX distinction | | |
| 96 | VREF | Reference voltage for A/D input | | |
| 97 | AVCC | Power supply for A/D input = STB3.3V | | - |
| 98 | NC | NC pin | - | 1 |
| 99 | NC | NC pin | | |
| 100 | AMG_MD | Address emergency monitor | I | Н |
| 100 | _ AIVIU_IVID | Address emergency monitor | ı | 17 |

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■ PD5856A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

| Pin Function | • | Pin | Function |
|--------------------------------|---|-----|----------|
|--------------------------------|---|-----|----------|

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| Ball No. | No. | Pin Name | Function |
|----------|-----|--------------|--|
| A1 | 1 | BAI_6 | A phase signal input of B video (sixth bit) |
| B1 | 2 | BAI_5 | A phase signal input of B video (fifth bit) |
| C1 | 3 | BAI_4 | A phase signal input of B video (fourth bit) |
| D1 | 4 | NC | NC pin |
| E1 | 5 | NC | NC pin |
| F1 | 6 | BAI_3 | A phase signal input of B video (fifth bit) |
| G1 | 7 | BAI_2 | A phase signal input of B video (fourth bit) |
| H1 | 8 | FIELD | FIELD signal input |
| J1 | 9 | XSUSB_12 | X-Drive control signal output |
| K1 | 10 | XSUSB_10 | X-Drive control signal output |
| L1 | 11 | XSUSB_4 | X-Drive control signal output |
| M1 | 12 | XSUSB_0 | X-Drive control signal output |
| N1 | 13 | XSUSA_10 | X-Drive control signal output |
| P1 | 14 | XSUSA_4 | X-Drive control signal output |
| R1 | 15 | XSUSA_2 | X-Drive control signal output |
| T1 | 16 | ADRS_0 | Address control signal output |
| U1 | 17 | AD6TXOUT3M | Address LVDS signal output |
| V1 | 18 | AD6TXCLKOUTM | Address LVDS signal output |
| W1 | 19 | AD6TXOUT2M | Address LVDS signal output |
| Y1 | 20 | AD6TXOUT1M | Address LVDS signal output |
| AA1 | 21 | AD6TXOUT0M | Address LVDS signal output |
| AB1 | 22 | AD7TXOUT3M | Address LVDS signal output |
| AC1 | 23 | AD7TXCLKOUTM | Address LVDS signal output |
| AD1 | 24 | AD7TXOUT2M | Address LVDS signal output |
| AE1 | 25 | AD7TXOUT1M | Address LVDS signal output |
| AF1 | 26 | AD7TXOUT0M | Address LVDS signal output |
| AF2 | 27 | AD7TXOUT0P | Address LVDS signal output |
| AF3 | 28 | VSSLA | GND |
| AF4 | 29 | AD3TXOUT3M | Address LVDS signal output |
| AF5 | 30 | AD3TXCLKOUTM | Address LVDS signal output |
| AF6 | 31 | AD3TXOUT2M | Address LVDS signal output |
| AF7 | 32 | AD3TXOUT1M | Address LVDS signal output |
| AF8 | 33 | AD3TXOUT0M | Address LVDS signal output |
| AF9 | 34 | AD2TXOUT3M | Address LVDS signal output |
| AF10 | 35 | AD2TXCLKOUTM | Address LVDS signal output |
| AF11 | 36 | AD2TXOUT2M | Address LVDS signal output |
| AF12 | 37 | AD2TXOUT1M | Address LVDS signal output |
| AF13 | 38 | AD2TXOUT0M | Address LVDS signal output |
| AF14 | 39 | AD1TXOUT3M | Address LVDS signal output |
| AF15 | 40 | AD1TXCLKOUTM | Address LVDS signal output |
| AF16 | 41 | AD1TXOUT2M | Address LVDS signal output |
| AF17 | 42 | AD1TXOUT1M | Address LVDS signal output |
| AF18 | 43 | AD1TXOUT0M | Address LVDS signal output |
| AF19 | 44 | AD0TXOUT3M | Address LVDS signal output |
| AF20 | 45 | AD0TXCLKOUTM | Address LVDS signal output |
| AF21 | 46 | AD0TXOUT2M | Address LVDS signal output |
| AF22 | 47 | AD0TXOUT1M | Address LVDS signal output |
| AF23 | 48 | AD0TXOUT0M | Address LVDS signal output |
| AF24 | 49 | VSSL15 | GND |
| AF25 | 50 | AD4TXOUT3P | Address LVDS signal output |

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| Ball No. | No. | Pin Name | Function |
|----------|-----|----------------------------|--|
| AF26 | 51 | AD4TXOUT3M | Address LVDS signal output |
| AE26 | 52 | AD4TXCLKOUTM | Address LVDS signal output |
| AD26 | 53 | AD4TXOUT2M | Address LVDS signal output |
| AC26 | 54 | AD4TXOUT1M | Address LVDS signal output |
| AB26 | 55 | AD4TXOUT0M | Address LVDS signal output |
| AA26 | 56 | AD5TXOUT3M | Address LVDS signal output |
| Y26 | 57 | AD5TXCLKOUTM | Address LVDS signal output |
| W26 | 58 | AD5TXOLROOTM AD5TXOUT2M | Address LVDS signal output |
| V26 | 59 | AD5TXOUT1M | Address LVDS signal output |
| U26 | 60 | AD5TXOUT0M | Address LVDS signal output |
| T26 | 61 | SDIDBI_N | JTAG signal |
| R26 | 62 | SDIJTAG | JTAG signal |
| P26 | 63 | GPIO0_3 | Microcomputer macro general-purpose port |
| N26 | 64 | GPIO0_3 | Microcomputer macro general-purpose port |
| M26 | 65 | YSUSA_4 | Y-Drive control signal output |
| L26 | 66 | YSUSA_10 | Y-Drive control signal output |
| K26 | 67 | YSUSA_14 | Y-Drive control signal output |
| J26 | 68 | YSUSB_4 | Y-Drive control signal output |
| H26 | | YSUSB_6 | Y-Drive control signal output |
| - | 69 | | |
| G26 | 70 | YSUSB_10 | Y-Drive control signal output |
| F26 | 71 | YSUSB_14 | Y-Drive control signal output |
| E26 | 72 | NC NO | NC pin |
| D26 | 73 | NC | NC pin |
| C26 | 74 | SCAN_10 | Scan control signal output |
| B26 | 75 | CSIOTXD | Communication with microcomputer |
| A26 | 76 | CSRD_N | Communication with microcomputer |
| A25 | 77 | CSCS_N0 | Communication with microcomputer |
| A24 | 78 | EXA16 | Flash memory address bus |
| A23 | 79 | EXA15 | Flash memory address bus |
| A22 | 80 | EXA14 | Flash memory address bus |
| A21 | 81 | EXA13 | Flash memory address bus |
| A20 | 82 | EXA12 | Flash memory address bus |
| A19 | 83 | EXA10 | Flash memory address bus |
| A18 | 84 | EXA7 | Flash memory address bus |
| A17 | 85 | EXA1 | Flash memory address bus |
| A16 | 86 | EXDIO_3 | Flash memory data bus |
| A15 | 87 | EXDIO_5 | Flash memory data bus |
| A14 | 88 | EXDIO_11 | Flash memory data bus |
| A13 | 89 | TRNSEND_O | NC pin |
| A12 | 90 | RBI_5 | B phase signal input of R video (fifth bit) |
| A11 | 91 | RBI_0 | B phase signal input of R video (0 bit) |
| A10 | 92 | GBI_8 | B phase signal input of G video (eighth bit) |
| A9 | 93 | GBI_2 | B phase signal input of G video (second bit) |
| A8 | 94 | BBI_6 | B phase signal input of B video (sixth bit) |
| A7 | 95 | BBI_0 | B phase signal input of B video (0 bit) |
| A6 | 96 | VDI | VD signal input |
| A5 | 97 | RAI_5 | A phase signal input of R video (fifth bit) |
| A4 | 98 | DCLKI | CLK input |
| A3 | 99 | GAI_4 | A phase signal input of G video (fourth bit) |
| A2 | 100 | BAI_9 | A phase signal input of B video (ninth bit) |

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| Ball No. | No. | Pin Name | Function |
|----------|-----|--------------|---|
| B2 | 101 | BAI_8 | A phase signal input of B video (eighth bit) |
| C2 | 102 | BAI_7 | A phase signal input of B video (seventh bit) |
| D2 | 103 | GND | GND |
| E2 | 104 | NC | NC |
| F2 | 105 | NC | NC |
| G2 | 106 | BAI_1 | A phase signal input of B video (first bit) |
| H2 | 107 | XSUSB_15 | X-Drive control signal output |
| J2 | 108 | GND | GND |
| K2 | 109 | XSUSB_9 | X-Drive control signal output |
| L2 | 110 | XSUSB_3 | X-Drive control signal output |
| M2 | 111 | XSUSA_15 | X-Drive control signal output |
| N2 | 112 | XSUSA_9 | X-Drive control signal output |
| P2 | 113 | GND | GND |
| R2 | 114 | XSUSA_1 | X-Drive control signal output |
| T2 | 115 | TEST2 | Test signal input (Not used) |
| U2 | 116 | AD6TXOUT3P | Address LVDS signal output |
| V2 | 117 | AD6TXCLKOUTP | Address LVDS signal output |
| W2 | 118 | AD6TXOUT2P | Address LVDS signal output |
| Y2 | 119 | AD6TXOUT1P | Address LVDS signal output |
| AA2 | 120 | AD6TXOUT0P | Address LVDS signal output |
| AB2 | 121 | AD7TXOUT3P | Address LVDS signal output |
| AC2 | 122 | AD7TXCLKOUTP | Address LVDS signal output |
| AD2 | 123 | AD7TXOUT2P | Address LVDS signal output |
| AE2 | 124 | AD7TXOUT1P | Address LVDS signal output |
| AE3 | 125 | VSSLA | GND |
| AE4 | 126 | AD3TXOUT3P | Address LVDS signal output |
| AE5 | 127 | AD3TXCLKOUTP | Address LVDS signal output |
| AE6 | 128 | AD3TXOUT2P | Address LVDS signal output |
| AE7 | 129 | AD3TXOUT1P | Address LVDS signal output |
| AE8 | 130 | AD3TXOUT0P | Address LVDS signal output |
| AE9 | 131 | AD2TXOUT3P | Address LVDS signal output |
| AE10 | 132 | AD2TXCLKOUTP | Address LVDS signal output |
| AE11 | 133 | AD2TXOUT2P | Address LVDS signal output |
| AE12 | 134 | AD2TXOUT1P | Address LVDS signal output |
| AE13 | 135 | AD2TXOUT0P | Address LVDS signal output |
| AE14 | 136 | AD1TXOUT3P | Address LVDS signal output |
| AE15 | 137 | AD1TXCLKOUTP | Address LVDS signal output |
| AE16 | 138 | AD1TXOUT2P | Address LVDS signal output |
| AE17 | 139 | AD1TXOUT1P | Address LVDS signal output |
| AE18 | 140 | AD1TXOUT0P | Address LVDS signal output |
| AE19 | 141 | AD0TXOUT3P | Address LVDS signal output |
| AE20 | 142 | AD0TXCLKOUTP | Address LVDS signal output |
| AE21 | 143 | AD0TXOUT2P | Address LVDS signal output |
| AE22 | 144 | AD0TXOUT1P | Address LVDS signal output |
| AE23 | 145 | AD0TXOUT0P | Address LVDS signal output |
| AE24 | 146 | VSSL15 | GND |
| AE25 | 147 | AD4TXCLKOUTP | Address LVDS signal output |
| AD25 | 148 | AD4TXOUT2P | Address LVDS signal output |
| AC25 | 149 | AD4TXOUT1P | Address LVDS signal output |
| AB25 | 150 | AD4TXOUT0P | Address LVDS signal output |

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| Ball No. | No. | Pin Name | Function |
|----------|-----|----------------------------|--|
| AA25 | 151 | AD5TXOUT3P | Address LVDS signal output |
| Y25 | 152 | AD5TXCUT3P AD5TXCLKOUTP | |
| W25 | 153 | | Address LVDS signal output Address LVDS signal output |
| | | ADSTXOUT2P | · |
| V25 | 154 | ADSTXOUT1P | Address LVDS signal output |
| U25 | 155 | AD5TXOUT0P | Address LVDS signal output |
| T25 | 156 | SDITRST_N | JTAG signal |
| R25 | 157 | RESETX | Reset input |
| P25 | 158 | GND | GND |
| N25 | 159 | GPIO0_0 | Microcomputer macro general-purpose port |
| M25 | 160 | YSUSA_5 | Y-Drive control signal output |
| L25 | 161 | YSUSA_11 | Y-Drive control signal output |
| K25 | 162 | YSUSA_15 | Y-Drive control signal output |
| J25 | 163 | GND | GND |
| H25 | 164 | YSUSB_7 | Y-Drive control signal output |
| G25 | 165 | YSUSB_11 | Y-Drive control signal output |
| F25 | 166 | NC | NC pin |
| E25 | 167 | NC | NC pin |
| D25 | 168 | GND | GND |
| C25 | 169 | SCAN_11 | Scan control signal output |
| B25 | 170 | CSIORXD | Communication with UCOM |
| B24 | 171 | CSIOSCKI | Communication with UCOM |
| B23 | 172 | UARTTXD | Communication with UCOM |
| B22 | 173 | UARTRXD | Communication with UCOM |
| B21 | 174 | CSWR_N0 | Communication with UCOM |
| B20 | 175 | GND | GND |
| B19 | 176 | EXA9 | Flash memory address bus |
| B18 | 177 | EXA6 | Flash memory address bus |
| B17 | 178 | EXA0 | Flash memory address bus |
| B16 | 179 | GND | GND |
| B15 | 180 | EXDIO_6 | Flash memory data bus |
| B14 | 181 | EXDIO_12 | Flash memory data bus |
| B13 | 182 | RBI_9 | B phase signal input of R video (ninth bit) |
| B12 | 183 | RBI_4 | B phase signal input of R video (fourth bit) |
| B11 | 184 | GND | GND |
| B10 | 185 | GBI_7 | B phase signal input of G video (seventh bit) |
| B9 | 186 | GBI_1 | B phase signal input of G video (first bit) |
| B8 | 187 | BBI_5 | B phase signal input of B video (fifth bit) |
| B7 | 188 | GND | GND |
| В6 | 189 | HDI | HD signal input |
| B5 | 190 | RAI_4 | A phase signal input of R video (fourth bit) |
| B4 | 191 | GAI_9 | A phase signal input of G video (ninth bit) |
| В3 | 192 | GAI_3 | A phase signal input of G video (third bit) |
| C3 | 193 | GAI_2 | A phase signal input of G video (second bit) |
| D3 | 194 | VDDD33 | 3.3V power supply |
| E3 | 195 | GAI_1 | A phase signal input of G video (first bit) |
| F3 | 196 | GAI_0 | A phase signal input of G video (0 bit) |
| G3 | 197 | NC | NC pin |
| НЗ | 198 | XSUSB_14 | X-Drive control signal output |
| J3 | 199 | VDDIO | 3.3V power supply |
| K3 | 200 | XSUSB_8 | X-Drive control signal output |

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| Ball No. | No. | Pin Name | Function |
|----------|-----|-------------|--|
| | | | |
| L3 | 201 | XSUSB_2 | X-Drive control signal output |
| M3 | 202 | XSUSA_14 | X-Drive control signal output |
| N3 | 203 | XSUSA_8 | X-Drive control signal output |
| P3 | 204 | VDDIO | 3.3V power supply |
| R3 | 205 | XSUSA_0 | X-Drive control signal output |
| T3 | 206 | TEST1 | Test signal input (Not used) |
| U3 | 207 | VSSLA | GND |
| V3 | 208 | VSSLA | GND |
| W3 | 209 | VSSLA | GND |
| Y3 | 210 | VSSLA | GND |
| AA3 | 211 | VSSLA | GND |
| AB3 | 212 | VSSLA | GND |
| AC3 | 213 | VSSLA | GND |
| AD3 | 214 | VSSLA | GND |
| AD4 | 215 | VSSLA | GND |
| AD5 | 216 | VSSLA | GND |
| AD6 | 217 | VSSLA | GND |
| AD7 | 218 | VSSLA | GND |
| AD8 | 219 | VSSLA | GND |
| AD9 | 220 | VSSLA | GND |
| AD10 | 221 | VSSLA | GND |
| AD11 | 222 | VSSLA | GND |
| AD12 | 223 | VSSLA | GND |
| AD13 | 224 | VSSLA | GND |
| AD14 | 225 | VSSLA | GND |
| AD15 | 226 | VSSLA | GND |
| AD16 | 227 | VSSLA | GND |
| AD17 | 228 | VSSLA | GND |
| AD18 | 229 | VSSLA | GND |
| AD19 | 230 | VSSLA | GND |
| AD20 | 231 | VSSLA | GND |
| AD21 | 232 | VSSLA | GND |
| AD22 | 233 | VSSLA | GND |
| AD23 | 234 | VSSLA | GND |
| AD24 | 235 | VSSLA | GND |
| AC24 | 236 | VSSLA | GND |
| AB24 | 237 | VSSLA | GND |
| AA24 | 238 | VSSLA | GND |
| Y24 | 239 | VSSLA | GND |
| W24 | 240 | VSSLA | GND |
| V24 | 241 | VSSLA | GND |
| U24 | 242 | VSSLA | GND |
| T24 | 243 | SDITDO | JTAG signal |
| R24 | 244 | GPIO0_7 | Microcomputer macro general-purpose port |
| P24 | 245 | VDDIO VDDIO | 3.3V power supply |
| N24 | 246 | YSUSA_0 | Y-Drive control signal output |
| M24 | 247 | YSUSA_6 | Y-Drive control signal output |
| L24 | 248 | YSUSA_12 | Y-Drive control signal output |
| K24 | 249 | YSUSB_0 | Y-Drive control signal output |
| 114 | 473 | 13000_0 | 1 Dive control signal output |

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VDDD33

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3.3V power supply

| Ball No. | No. | Pin Name | Function |
|----------|-----|-----------------|---|
| | | | |
| H24 | 251 | YSUSB_8 | Y-Drive control signal output |
| G24 | 252 | NC VOLICE 15 | NC pin |
| F24 | 253 | YSUSB_15 | Y-Drive control signal output |
| E24 | 254 | SCAN_3 | Scan control signal output |
| D24 | 255 | VDDD33 | 3.3V power supply |
| C24 | 256 | SCAN_12 | Scan control signal output |
| C23 | 257 | SCAN_13 | Scan control signal output |
| C22 | 258 | SCAN_14 | Scan control signal output |
| C21 | 259 | SCAN_15 | Scan control signal output |
| C20 | 260 | VDDIO | 3.3V power supply |
| C19 | 261 | EXA8 | Flash memory address bus |
| C18 | 262 | EXA5 | Flash memory address bus |
| C17 | 263 | CLKD | CLK input (60MHz) |
| C16 | 264 | VDDIO | 3.3V power supply |
| C15 | 265 | EXDIO_7 | Flash memory data bus |
| C14 | 266 | EXDIO_13 | Flash memory data bus |
| C13 | 267 | RBI_8 | B phase signal input of R video (eighth bit) |
| C12 | 268 | RBI_3 | B phase signal input of R video (third bit) |
| C11 | 269 | VDDIO | 3.3V power supply |
| C10 | 270 | GBI_6 | B phase signal input of G video (sixth bit) |
| C9 | 271 | GBI_0 | B phase signal input of G video (0 bit) |
| C8 | 272 | BBI_4 | B phase signal input of B video (fourth bit) |
| C7 | 273 | VDDIO | 3.3V power supply |
| C6 | 274 | RAI_9 | A phase signal input of R video (ninth bit) |
| C5 | 275 | RAI_3 | A phase signal input of R video (third bit) |
| C4 | 276 | GAI_8 | A phase signal input of G video (eighth bit) |
| D4 | 277 | GAI_7 | A phase signal input of G video (seventh bit) |
| E4 | 278 | GAI_6 | A phase signal input of G video (sixth bit) |
| F4 | 279 | GAI_5 | A phase signal input of G video (fifth bit) |
| G4 | 280 | VCMP | GND |
| H4 | 281 | XSUSB_13 | X-Drive control signal output |
| J4 | 282 | XSUSB_11 | X-Drive control signal output |
| K4 | 283 | XSUSB_7 | X-Drive control signal output |
| L4 | 284 | XSUSB_1 | X-Drive control signal output |
| M4 | 285 | XSUSA_13 | X-Drive control signal output |
| N4 | 286 | XSUSA_7 | X-Drive control signal output |
| P4 | 287 | XSUSA_3 | X-Drive control signal output |
| R4 | 288 | ADRS_3 | Address control signal output |
| T4 | 289 | TESTAN | Test signal input (Not used) |
| U4 | 290 | VDDLA | 3.3V power supply |
| V4 | 291 | VDDLA | 3.3V power supply |
| W4 | 292 | VDDLA | 3.3V power supply |
| Y4 | 293 | VDDLA | 3.3V power supply |
| AA4 | 294 | VDDLA | 3.3V power supply |
| AB4 | 295 | VDDLA | 3.3V power supply |
| AC4 | 296 | VDDLA | 3.3V power supply |
| AC5 | 297 | VDDLA | 3.3V power supply |
| AC6 | 298 | VDDLA | 3.3V power supply |
| AC7 | 299 | VDDLA | 3.3V power supply |
| AC8 | 300 | VDDLA | 3.3V power supply |

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| Ball No. | No. | Pin Name | Function |
|----------|------|----------|--|
| AC8 | 300 | VDDLA | 3.3V power supply |
| AC9 | 301 | VDDLA | 3.3V power supply |
| AC10 | 302 | VDDLA | 3.3V power supply |
| AC11 | 303 | VDDLA | 3.3V power supply |
| AC12 | 304 | VDDLA | 3.3V power supply |
| AC13 | 305 | VDDLA | 3.3V power supply |
| AC14 | 306 | VDDBG | 3.3V power supply |
| AC15 | 307 | VDDLA | 3.3V power supply |
| AC16 | 308 | VDDLA | 3.3V power supply |
| AC17 | 309 | VDDLA | 3.3V power supply |
| AC18 | 310 | VDDLA | 3.3V power supply |
| AC19 | 311 | VDDLA | 3.3V power supply |
| AC20 | 312 | VDDLA | 3.3V power supply |
| AC21 | 313 | VDDLA | 3.3V power supply |
| AC22 | 314 | VDDLA | 3.3V power supply |
| AC23 | 315 | VDDLA | 3.3V power supply |
| AB23 | 316 | VDDLA | 3.3V power supplyv |
| AA23 | 317 | VDDLA | 3.3V power supply |
| Y23 | 318 | VDDLA | 3.3V power supply |
| W23 | 319 | VDDLA | 3.3V power supply |
| V23 | 320 | VDDLA | 3.3V power supply |
| U23 | 321 | VDDLA | 3.3V power supply |
| T23 | 322 | SDITDI | JTAG signal |
| R23 | 323 | GPIO0_6 | Microcomputer macro general-purpose port |
| P23 | 324 | GPIO0_2 | Microcomputer macro general-purpose port |
| N23 | 325 | YSUSA_1 | Y-Drive control signal output |
| M23 | 326 | YSUSA_7 | Y-Drive control signal output |
| L23 | 327 | YSUSA_13 | Y-Drive control signal output |
| K23 | 328 | YSUSB_1 | Y-Drive control signal output |
| J23 | 329 | YSUSB_5 | Y-Drive control signal output |
| H23 | 330 | YSUSB_9 | Y-Drive control signal output |
| G23 | 331 | VCMP | GND |
| F23 | 332 | SCAN_0 | Scan control signal output |
| E23 | 333 | SCAN_4 | Scan control signal output |
| D23 | 334 | SCAN_7 | Scan control signal output |
| D22 | 335 | SCAN_8 | Scan control signal output |
| D21 | 336 | SCAN_9 | Scan control signal output |
| D20 | 337 | EXA11 | Flash memory address bus |
| D19 | 338 | EXA19 | Flash memory address bus |
| D18 | 339 | EXA4 | Flash memory address bus |
| D17 | 340 | EXDIO_0 | Flash memory data bus |
| D16 | 341 | EXDIO_4 | Flash memory data bus |
| D15 | 342 | EXDIO_8 | Flash memory data bus |
| D14 | 343 | EXDIO_14 | Flash memory data bus |
| D13 | 344 | RBI_7 | B phase signal input of R video (seventh bit) |
| D13 | 345 | RBI_2 | B phase signal input of R video (second bit) |
| D12 | 346 | GBI_9 | B phase signal input of G video (ninth bit) B phase signal input of G video (ninth bit) |
| D10 | 347 | GBI_5 | B phase signal input of G video (fifth bit) |
| D10 | 348 | BBI_9 | B phase signal input of B video (inth bit) B phase signal input of B video (ninth bit) |
| D9 D8 | 349 | BBI_3 | B phase signal input of B video (tenth bit) B phase signal input of B video (tenth bit) |
| 20 | U-10 | 001_0 | D pridoc digital impat of D video (territi bit) |

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| Ball No. | No. | Pin Name | Function |
|--------------|------------|-----------------|--|
| D7 | 350 | DEI | DE signal input |
| D6 | 351 | RAI_8 | A phase signal input of R video (eighth bit) |
| D5 | 352 | RAI_2 | A phase signal input of R video (second bit) |
| E5 | 353 | RAI_1 | A phase signal input of R video (first bit) |
| F5 | 354 | RAI_0 | A phase signal input of R video (0 bit) |
| G5 | 355 | BAI_0 | A phase signal input of B video (0 bit) |
| H5 | 356 | VSS15 | GND |
| J5 | 357 | VDDHR | 3.3V power supply |
| K5 | 358 | XSUSB_6 | X-Drive control signal output |
| L5 | 359 | VSSD15 | GND |
| M5 | 360 | XSUSA_12 | X-Drive control signal output |
| N5 | 361 | XSUSA_6 | X-Drive control signal output |
| P5 | 362 | VSS15 | GND |
| R5 | 363 | ADRS_2 | Address control signal output |
| T5 | 364 | TESTBN | Test signal input (Not used) |
| U5 | 365 | VSSL15 | GND |
| V5 | 366 | VSSLA | GND |
| W5 | 367 | VSSLA | GND |
| Y5 | 368 | VSSL15 | GND |
| AA5 | 369 | VDDLP | 3.3V power supply |
| AB5 | 370 | VSSL15 | GND |
| AB6 | 371 | VSSLA | GND |
| AB7 | 372 | VSSLA | GND |
| AB8 | 373 | VSSL15 | GND |
| AB9 | 374 | VSSLA | GND |
| AB10 | 375 | VSSLA | GND |
| AB11 | 376 | VSSL15 | GND |
| AB12 | 377 | VSSLA | GND |
| AB13 | 378 | VSSLA | GND |
| AB14 | 379 | REFRIN | Reference current generation |
| AB15 | 380 | VSSBG | GND |
| AB16 | 381 | VSSL15 | GND |
| AB17 | 382 | VSSLA | GND |
| AB18 | | VSSLA | GND |
| AB19 | 383 384 | VSSL15 | GND |
| AB19 AB20 | 385 | VSSLA | GND |
| AB20 AB21 | 386 | VSSLA | GND |
| AB21 AB22 | 386 | VSSLA | GND |
| AB22 AA22 | 387 | VDDLA | |
| | | | 3.3V power supply GND |
| Y22 | 389 | VSSL15 | |
| W22 | 390 | VSSLA | GND |
| V22 | 391 | VSSLA VSSL15 | GND |
| U22 | 392 | VSSL15 | GND |
| T22 | 393 | SDITMS | JTAG signal |
| R22 | 394 | GPIO0_5 | Microcomputer macro general-purpose port |
| P22 | 395 | VSS15 | GND |
| N22 | 396 | YSUSA_2 | Y-Drive control signal output |
| M22 | 397 | YSUSA_8 | Y-Drive control signal output |
| L22 | 398 | VSSD15 | GND |
| K22 | 399 | YSUSB_2 | Y-Drive control signal output |

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| Ball No. | No. | Pin Name | Function |
|----------|-----|----------|--|
| J22 | 400 | VDDHL | 3.3V power supply |
| H22 | 401 | VSSD15 | GND |
| G22 | 402 | YSUSB_12 | Y-Drive control signal output |
| F22 | 403 | SCAN_1 | Scan control signal output |
| E22 | 404 | SCAN_5 | Scan control signal output |
| E21 | 405 | SCAN_6 | Scan control signal output |
| E20 | 406 | VSS15 | GND |
| E19 | 407 | EXA18 | Flash memory address bus |
| E18 | 408 | EXA3 | Flash memory address bus |
| E17 | 409 | EXDIO_1 | Flash memory data bus |
| E16 | 410 | VSS15 | GND |
| E15 | 411 | EXDIO_9 | Flash memory data bus |
| E14 | 412 | EXDIO_15 | Flash memory data bus |
| E13 | 413 | RBI_6 | B phase signal input of R video (sixth bit) |
| E12 | 414 | CLKS | CLK input (85MHz) |
| E11 | 415 | VSS15 | GND |
| E10 | 416 | GBI_4 | B phase signal input of G video (fourth bit) |
| E8 | 418 | BBI_2 | B phase signal input of B video (second bit) |
| E9 | 417 | BBI_8 | B phase signal input of B video (second bit) B phase signal input of B video (eighth bit) |
| E7 | 417 | VSS15 | GND |
| E6 | 420 | RAI_7 | A phase signal input of R video (seventh bit) |
| F6 | | | |
| | 421 | RAI_6 | A phase signal input of R video (sixth bit) |
| G6 | 422 | APL_DT | APL value trigger input |
| H6 | 423 | VDD15 | 1.5V power supply |
| J6 | 424 | VBB | VBB power monitor in the DRAM |
| K6 | 425 | XSUSB_5 | X-Drive control signal output |
| L6 | 426 | VDDD15 | 1.5V power supply |
| M6 | 427 | XSUSA_11 | X-Drive control signal output |
| N6 | 428 | XSUSA_5 | X-Drive control signal output |
| P6 | 429 | VDD15 | 1.5V power supply |
| R6 | 430 | ADRS_1 | Address control signal output |
| T6 | 431 | TESTCN | Test signal input (Not used) |
| U6 | 432 | VDDL15 | 1.5V power supply |
| V6 | 433 | VDDLA | 3.3V power supply |
| W6 | 434 | VDDLA | 3.3V power supply |
| Y6 | 435 | VDDL15 | 1.5V power supply |
| AA6 | 436 | VDDLA | 3.3V power supply |
| AA7 | 437 | VDDLA | 3.3V power supply |
| AA8 | 438 | VDDL15 | 1.5V power supply |
| AA9 | 439 | VDDLA | 3.3V power supply |
| AA10 | 440 | VDDLA | 3.3V power supply |
| AA11 | 441 | VDDL15 | 1.5V power supply |
| AA12 | 442 | VDDLA | 3.3V power supply |
| AA13 | 443 | VDDLA | 3.3V power supply |
| AA14 | 444 | VDDLA | 3.3V power supply |
| AA15 | 445 | VDDLA | 3.3V power supply |
| AA16 | 446 | VDDL15 | 1.5V power supply |
| AA17 | 447 | VDDLA | 3.3V power supply |
| AA18 | 448 | VDDLA | 3.3V power supply |
| AA19 | 449 | VDDL15 | 1.5V power supply |

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| D-II N- | NI - | Dia Nama | Function |
|----------|------|-----------|---|
| Ball No. | No. | Pin Name | Function |
| AA20 | 450 | VDDLA | 3.3V power supply |
| AA21 | 451 | VDDLA | 3.3V power supply |
| Y21 | 452 | VDDL15 | 1.5V power supply |
| W21 | 453 | VDDLA | 3.3V power supply |
| V21 | 454 | VDDLA | 3.3V power supply |
| U21 | 455 | VDDL15 | 1.5V power supply |
| T21 | 456 | SDITCK | JTAG signal |
| R21 | 457 | GPIO0_4 | Microcomputer macro general-purpose port |
| P21 | 458 | VDD15 | 1.5V power supply |
| N21 | 459 | YSUSA_3 | Y-Drive control signal output |
| M21 | 460 | YSUSA_9 | Y-Drive control signal output |
| L21 | 461 | VDDD15 | 1.5V power supply |
| K21 | 462 | YSUSB_3 | Y-Drive control signal output |
| J21 | 463 | VBB | VBB power monitor in the DRAM |
| H21 | 464 | VDDD15 | 1.5V power supply |
| G21 | 465 | YSUSB_13 | Y-Drive control signal output |
| F21 | 466 | SCAN_2 | Scan control signal output |
| F20 | 467 | VDD15 | 1.5V power supply |
| F19 | 468 | EXA17 | Flash memory address bus |
| F18 | 469 | EXA2 | Flash memory address bus |
| F17 | 470 | EXDIO_2 | Flash memory data bus |
| F16 | 471 | VDD15 | 1.5V power supply |
| F15 | 472 | EXDIO_10 | Flash memory data bus |
| F14 | 473 | TRNSEND_I | NC pin |
| F13 | 474 | VDD15 | 1.5V power supply |
| F12 | 475 | RBI_1 | B phase signal input of R video (first bit) |
| F11 | 476 | VDD15 | 1.5V power supply |
| F10 | 477 | GBI_3 | B phase signal input of G video (third bit) |
| F9 | 478 | BBI_7 | B phase signal input of B video (seventh bit) |
| F8 | 479 | BBI_1 | B phase signal input of B video (first bit) |
| F7 | 480 | VDD15 | 1.5V power supply |

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■ AN5870SB (RGB ASSY : IC6402)

(AV I/O ASSY: IC7610, IC7613) (VIDEO SLOT 2 ASSY: IC7902)

• Wide Band Analog SW

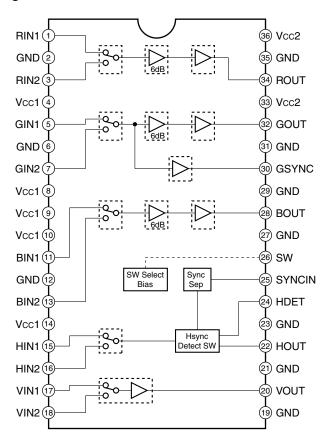
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Pin Arrangement / Block Diagram



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Pin Function

| No. | Name | Function | No. | Name | Function |
|-----|------|-------------------|-----|--------|-----------------------|
| 1 | RIN1 | R input 1 | 19 | GND | Ground (HV, HSEP, SW) |
| 2 | GND | Ground (R) | 20 | VOUT | V output |
| 3 | RIN2 | R input 2 | 21 | GND | Ground |
| 4 | Vcc1 | 5V (GSYNC) | 22 | HOUT | H output |
| 5 | GIN1 | G input 1 | 23 | GND | Ground |
| 6 | GND | Ground (G) | 24 | HDET | H detect |
| 7 | GIN2 | G input 2 | 25 | SYNCIN | Sync input |
| 8 | Vcc1 | 5V (R) | 26 | SW | SW |
| 9 | Vcc1 | 5V (G) | 27 | GND | Ground |
| 10 | Vcc1 | 5V (B) | 28 | BOUT | B output |
| 11 | BIN1 | B input 1 | 29 | GND | Ground (RGB) |
| 12 | GND | Ground (B) | 30 | GSYNC | GSync output |
| 13 | BIN2 | B input 2 | 31 | GND | Ground (RGB) |
| 14 | Vcc1 | 5V (HV, HSEP, SW) | 32 | GOUT | G output |
| 15 | HIN1 | H input 1 | 33 | Vcc2 | 12V (RGB) |
| 16 | HIN2 | H input 2 | 34 | ROUT | R output |
| 17 | VIN1 | V input 1 | 35 | GND | Ground |
| 18 | VIN2 | V input 2 | 36 | Vcc2 | 12V (RGB) |

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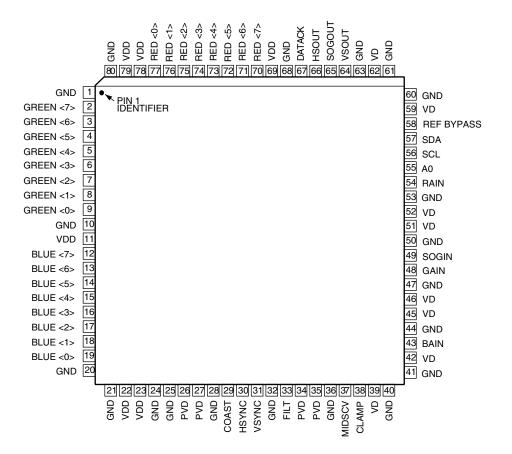
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■ AD9883AKST-110 (RGB ASSY : IC6602)

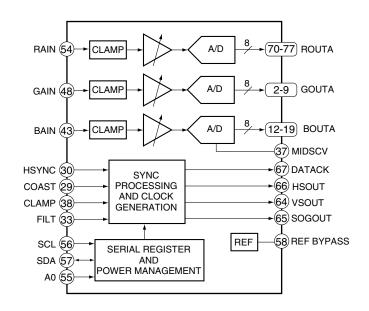
• 110 MSPS Analog Interface

• Pin Arrangement (Top View)

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Block Diagram



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• Pin Function

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| No. | Pin Name | I/O | Pin Function | | | | | | |
|-----|----------|-----|---|--|--|--|--|--|--|
| 1 | GND | _ | Ground | | | | | | |
| 2 | GREEN 7 | 0 | Converter Green output (MSB) | | | | | | |
| 3 | GREEN 6 | 0 | Converter Green output | | | | | | |
| 4 | GREEN 5 | 0 | Converter Green output | | | | | | |
| 5 | GREEN 4 | 0 | Converter Green output | | | | | | |
| 6 | GREEN 3 | 0 | Converter Green output | | | | | | |
| 7 | GREEN 2 | 0 | Converter Green output | | | | | | |
| 8 | GREEN 1 | 0 | Converter Green output | | | | | | |
| 9 | GREEN 0 | 0 | Converter Green output | | | | | | |
| 10 | GND | _ | Ground | | | | | | |
| 11 | VDD | _ | Power supply (3.3V) | | | | | | |
| 12 | BLUE 7 | 0 | Converter Blue output (MSB) | | | | | | |
| 13 | BLUE 6 | 0 | Converter Blue output | | | | | | |
| 14 | BLUE 5 | 0 | Converter Blue output | | | | | | |
| 15 | BLUE 4 | 0 | Converter Blue output | | | | | | |
| 16 | BLUE 3 | 0 | Converter Blue output | | | | | | |
| 17 | BLUE 2 | 0 | Converter Blue output | | | | | | |
| 18 | BLUE 1 | 0 | Converter Blue output | | | | | | |
| 19 | BLUE 0 | 0 | Converter Blue output | | | | | | |
| 20 | GND | _ | Ground Ground | | | | | | |
| 21 | GND | _ | Ground | | | | | | |
| 22 | VDD | _ | Power supply (3.3V) | | | | | | |
| 23 | VDD | _ | Power supply (3.3V) | | | | | | |
| 24 | GND | _ | Ground | | | | | | |
| 25 | GND | _ | Ground | | | | | | |
| 26 | PVD | _ | PLL power supply (3.3V) | | | | | | |
| 27 | PVD | _ | PLL power supply (3.3V) | | | | | | |
| 28 | GND | _ | Ground | | | | | | |
| 29 | COAST | ı | PLL COAST signal input | | | | | | |
| 30 | HSYNC | ı | Horizontal sync. input | | | | | | |
| 31 | VSYNC | ı | Vertical sync. input | | | | | | |
| 32 | GND | _ | Ground | | | | | | |
| 33 | FILT | - | External filter connection pin for built-in PLL | | | | | | |
| 34 | PVD | _ | PLL power supply (3.3V) | | | | | | |
| 35 | PVD | _ | PLL power supply (3.3V) | | | | | | |
| 36 | GND | _ | Ground | | | | | | |
| 37 | MIDSCV | - | Internal middle scale voltage bias | | | | | | |
| 38 | CLAMP | ı | Clamp input (External clamp signal) | | | | | | |
| 39 | VD | _ | Analog power supply (3.3V) | | | | | | |
| 40 | GND | _ | Ground | | | | | | |
| 41 | GND | _ | Ground | | | | | | |
| 42 | VD | - | Analog power supply (3.3V) | | | | | | |
| 43 | BAIN | ı | Analog input for converter B | | | | | | |
| 44 | GND | - | Ground | | | | | | |
| 45 | VD | _ | Analog power supply (3.3V) | | | | | | |

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| No. | Pin Name | I/O | Pin Function | | | | | | |
|-----|------------|-----|---|--|--|--|--|--|--|
| 46 | VD | _ | Analog power supply (3.3V) | | | | | | |
| 47 | GND | _ | Ground | | | | | | |
| 48 | GAIN | 1 | Analog input for converter G | | | | | | |
| 49 | SOGIN | 1 | nput for Sync-on Green | | | | | | |
| 50 | GND | - | Ground | | | | | | |
| 51 | VD | - | Analog power supply (3.3V) | | | | | | |
| 52 | VD | - | Analog power supply (3.3V) | | | | | | |
| 53 | GND | _ | Ground | | | | | | |
| 54 | RAIN | 1 | Analog input for converter R | | | | | | |
| 55 | A0 | 1 | Address input 1 of serial port | | | | | | |
| 56 | SCL | 1 | Data clock (max. 100kHz) of serial port | | | | | | |
| 57 | SDA | I/O | Data input/output of serial port | | | | | | |
| 58 | REF BYPASS | - | Internal reference bypass | | | | | | |
| 59 | VD | _ | Analog power supply (3.3V) | | | | | | |
| 60 | GND | _ | Ground | | | | | | |
| 61 | GND | _ | Ground | | | | | | |
| 62 | VD | _ | Analog power supply (3.3V) | | | | | | |
| 63 | GND | _ | Ground | | | | | | |
| 64 | VSOUT | 0 | VSYNC output (phasing with DATACLK) | | | | | | |
| 65 | SOGOUT | 0 | Sync-on-Green slicer output | | | | | | |
| 66 | HSOUT | 0 | HSYNC output (phasing with DATACLK) | | | | | | |
| 67 | DATACLK | 0 | Data input/output clock | | | | | | |
| 68 | GND | _ | Ground | | | | | | |
| 69 | VDD | - | Power supply (3.3V) | | | | | | |
| 70 | RED 7 | 0 | Converter Red output (MSB) | | | | | | |
| 71 | RED 6 | 0 | Converter Red output | | | | | | |
| 72 | RED 5 | 0 | Converter Red output | | | | | | |
| 73 | RED 4 | 0 | Converter Red output | | | | | | |
| 74 | RED 3 | 0 | Converter Red output | | | | | | |
| 75 | RED 2 | 0 | Converter Red output | | | | | | |
| 76 | RED 1 | 0 | Converter Red output | | | | | | |
| 77 | RED 0 | 0 | Converter Red output | | | | | | |
| 78 | VDD | _ | Power supply (3.3V) | | | | | | |
| 79 | VDD | _ | Power supply (3.3V) | | | | | | |
| 80 | GND | _ | Ground | | | | | | |

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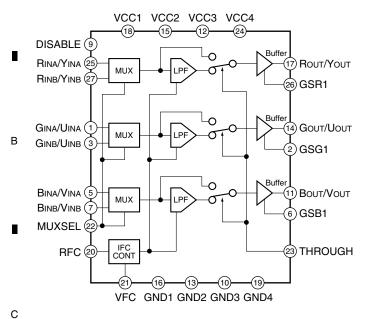
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■ SM5301BS (RGB ASSY : IC6601)

• Video Filter

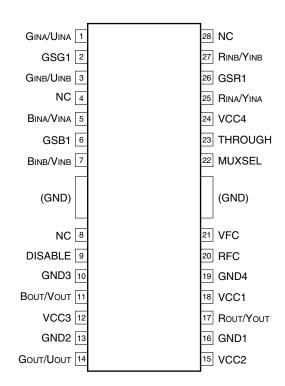
Block Diagram

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• Pin Arrangement (Top View)

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• Pin Function

| No. | Pin Name | I/O | Pin Function |
|-----|--------------------|-----|---|
| 1 | GINA/UINA | 1 | Analog GINA or UINA signal input. Sync signal is input on SYNCIN pin. |
| 2 | GSG1 | I | GOUT/UOUT output buffer gain set input |
| 3 | GINB/UINB | I | Analog GINB or UINB signal input. Sync signal is input on SYNCIN pin. |
| 4 | (NC) | - | No connection |
| 5 | BINA/VINA | I | Analog BINA or VINA signal input. Sync signal is input on SYNCIN pin. |
| 6 | GSB1 | I | BOUT/VOUT output buffer gain set input |
| 7 | BINB/VINB | ı | Analog BINB or VINB signal input. Sync signal is input on SYNCIN pin. |
| 8 | (NC) | - | No connection |
| 9 | DISABLE | I | Power save function. Built-in pull-down resistor. L: Enable H: Disable (Output pins: ROUT/YOUT, GOUT/UOUT, and BOUT/VOUT are high impedance.) |
| 10 | GND3 | _ | Analog ground |
| 11 | Воит/Vоит | 0 | B/V signal output |
| 12 | VCC3 | _ | Analog 5V supply |
| 13 | GND2 | _ | Analog ground |
| 14 | Gоит/ U оит | 0 | G/U signal output |
| 15 | VCC2 | _ | Analog 5V supply |
| 16 | GND1 | _ | Analog ground |
| 17 | Rоит/Yоит | 0 | R/Y signal output |
| 18 | VCC1 | _ | Analog 5V supply |
| 19 | GND4 | - | Analog ground |
| 20 | RFC | - | LPF (lowpass filter) cutoff frequency setting resistor connection |
| 21 | VFC | I | LPF (lowpass filter) cutoff frequency setting voltage input |
| 22 | MUXSEL | I | Input select signal. Built-in pull-down resistor. L: XINA pin select H: XINB pin select |
| 23 | THROUGH | 1 | Filter through Built-in pull-down resistor. L: Filter function H: Filter through (buffer only) |
| 24 | VCC4 | - | Analog 5V supply |
| 25 | RINA/YINA | I | Analog RINA or YINA signal input. Sync signal is input on SYNCIN pin. |
| 26 | GSR1 | ı | ROUT/YOUT output buffer gain set input |
| 27 | RINB/YINB | 1 | Analog RINB or YINB signal input. Sync signal is input on SYNCIN pin. |
| 28 | (NC) | - | No connection |

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■ BA7078AF (RGB ASSY : IC6604)

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• Synchonous seperation IC

Block Diagram

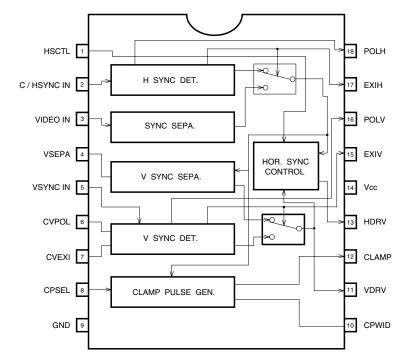
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• Pin Function

| No. | Pin Name | Pin Function | | | | | | |
|-----|------------|--|--|--|--|--|--|--|
| 1 | HSCTL | HDRV output Used to select whether to output the VDRV section of the HDRV output signal. High: VDRV section of HDRV is output Low: VDRV section of HDRV is not output | | | | | | |
| 2 | C/HSYNC IN | Composite sync / H SYNC input Input either the composite synchronization signal or the horizontal synchronization signal. Input is clamped, and is initiated by capacitor coupling. | | | | | | |
| 3 | VIDEO IN | YNC ON VIDEO input nputs the SYNC ON VIDEO signal(green). nput is sink chip clamped. nput is initiated by capacitor coupling. | | | | | | |
| 4 | VSEPA | f-V conversion Converts the horizontal synchronization signal frequency into a voltage. The voltage generated is proportional to the frequency of the horizontal synchronization signal. Attach a 0.56 μF capacitor between the ground pins. | | | | | | |
| 5 | VSYNC IN | V SYNC input Inputs the vertical synchronization signal. | | | | | | |
| 6 | CVPOL | Vertical polarity integration Integrates the vertical synchronization signal polarity detection circuit. Attach a 1.5 μ F capacitor between this pin and the ground. | | | | | | |
| 7 | CVEXI | Vertical existence integration Integrates the vertical synchronization signal existence detection circuit. Attach a 1 µF capacitor between this pin and the ground. | | | | | | |
| 8 | CPSEL | Setting the clamp position Used to set the clamp pulse generation position to either the front or back edge of HSYNC High: The front edge is the generation position Open: Composite / H SYNC IN: The front edge is the generation position VIDEO IN: The back edge is the generation position Low: The back edge is the generation position | | | | | | |
| 9 | GND | Ground | | | | | | |
| 10 | CPWID | Setting the clamp pulse width Sets the clamp pulse width according to the attached time constant. Attach a resistor between this pin and VCC and, a capacitor between this pin and GND. When $R = 3.9 k\Omega$ and $C = 100 pF$, pulse width is approximately 400 ns. Set the resistor to register an abnormality at $1 k\Omega$. | | | | | | |
| 11 | VDRV | VDRV output Outputs the vertical synchronization signal. The output signal has positive polarity. | | | | | | |
| 12 | CLAMP | Clamp output Outputs the clamp pulse generated from the vertical synchronization signal. The output signal has a positive polarity. | | | | | | |
| 13 | HDRV | HDRV output Outputs the clamp pulse generated from the horizontal synchronization signal. The output signal has positive polarity. | | | | | | |
| 14 | Vcc | Power supply | | | | | | |
| 15 | EXIV | Vertical existence output Indecates whether the vertical synchronization signal exists. | | | | | | |
| 16 | POLV | Vertical polarity output Indicates the polarity of the vertical synchronization signal. | | | | | | |
| 17 | EXIH | Horizontal existence output Indicates whether the horizontal synchronization signal exists. | | | | | | |
| 18 | POLH | Horizontal polarity output Indicates the polarity of the horizontal synchronization signal. | | | | | | |

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■ IC42S32200-7TG-K (RGB ASSY : IC7001, IC7002)

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• Synchronous DRAM

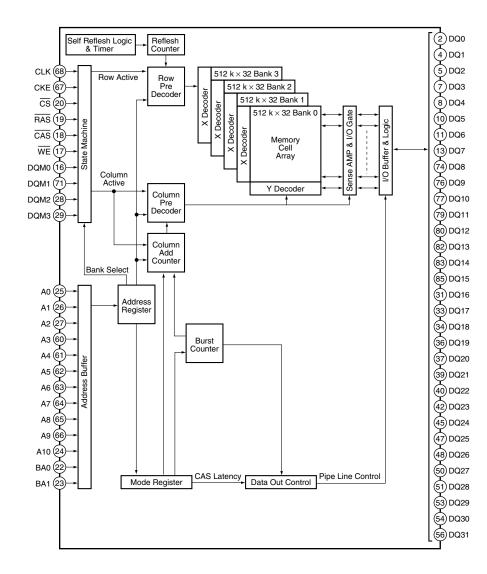
Block Diagram

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• Pin Function

| No. | Pin Name | I/O | Pin Function | No. | Pin Name | I/O | Pin Function |
|-----|----------|-----|--------------------------------|-----|----------|-----|--------------------------------|
| 1 | VDD | _ | Power supply | 44 | VSS | _ | Ground |
| 2 | DQ0 | I/O | Data input/output | 45 | DQ24 | I/O | Data input/output |
| 3 | VDDQ | _ | Power supply for output buffer | 46 | VSSQ | _ | Ground for output buffer |
| 4 | DQ1 | I/O | Data input/output | | DQ25 | I/O | Data input/output |
| 5 | DQ2 | I/O | Data input/output | 48 | DQ26 | I/O | Data input/output |
| 6 | VSSQ | _ | Ground for output buffer | 49 | VDDQ | _ | Power supply for output buffer |
| 7 | DQ3 | I/O | Data input/output | 50 | DQ27 | I/O | Data input/output |
| 8 | DQ4 | I/O | Data input/output | 51 | DQ28 | I/O | Data input/output |
| 9 | VDDQ | _ | Power supply for output buffer | 52 | VSSQ | _ | Ground for output buffer |
| 10 | DQ5 | I/O | Data input/output | 53 | DQ29 | I/O | Data input/output |
| 11 | DQ6 | I/O | Data input/output | 54 | DQ30 | I/O | Data input/output |
| 12 | VSSQ | _ | Ground for output buffer | 55 | VDDQ | _ | Power supply for output buffer |
| 13 | DQ7 | I/O | Data input/output | 56 | DQ31 | I/O | Data input/output |
| 14 | NC | - | No connection | 57 | NC | _ | No connection |
| 15 | VDD | _ | Power supply | 58 | VSS | _ | Ground |
| 16 | DQM0 | ı | Data input/output mask | 59 | DQM3 | ı | Data input/output mask |
| 17 | /WE | ı | Write enable | 60 | A3 | ı | Address input |
| 18 | /CAS | ı | Column address strobe | | A4 | ı | Address input |
| 19 | /RAS | ı | Row address strobe | | A5 | ı | Address input |
| 20 | /CS | ı | Chip select input | 63 | A6 | ı | Address input |
| 21 | NC | _ | No connection | 64 | A7 | ı | Address input |
| 22 | BA0 | ı | Bank address input | 65 | A8 | ı | Address input |
| 23 | BA1 | ı | Bank address input | 66 | A9 | ı | Address input |
| 24 | A10/AP | 1 | Address input | 67 | CKE | ı | Clock enable |
| 25 | A0 | -1 | Address input | 68 | CLK | ı | System clock input |
| 26 | A1 | I | Address input | 69 | NC | _ | No connection |
| 27 | A2 | ı | Address input | 70 | NC | _ | No connection |
| 28 | DQM2 | I | Data input/output mask | 71 | DQM1 | I | Data input/output mask |
| 29 | VDD | - | Power supply | 72 | VSS | _ | Ground |
| 30 | NC | - | No connection | 73 | NC | ı | No connection |
| 31 | DQ16 | I/O | Data input/output | 74 | DQ8 | 1/0 | Data input/output |
| 32 | VSSQ | - | Ground for output buffer | 75 | VDDQ | ı | Power supply for output buffer |
| 33 | DQ17 | I/O | Data input/output | 76 | DQ9 | 1/0 | Data input/output |
| 34 | DQ18 | I/O | Data input/output | 77 | DQ10 | 1/0 | Data input/output |
| 35 | VDDQ | - | Power supply for output buffer | | VSSQ | _ | Ground for output buffer |
| 36 | DQ19 | I/O | Data input/output | | DQ11 | I/O | Data input/output |
| 37 | DQ20 | I/O | Data input/output | | DQ12 | I/O | Data input/output |
| 38 | VSSQ | - | Ground for output buffer | | VDDQ | _ | Power supply for output buffer |
| 39 | DQ21 | I/O | Data input/output | | DQ13 | I/O | Data input/output |
| 40 | DQ22 | I/O | Data input/output | | DQ14 | I/O | Data input/output |
| 41 | VDDQ | _ | Power supply for output buffer | 84 | VSSQ | _ | Ground for output buffer |
| 42 | DQ23 | I/O | Data input/output | 85 | DQ15 | I/O | Data input/output |
| 43 | VDD | _ | Power supply | 86 | VSS | | Ground |

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■ MBM29PL3200BE70PFV (RGB ASSY : IC7152)

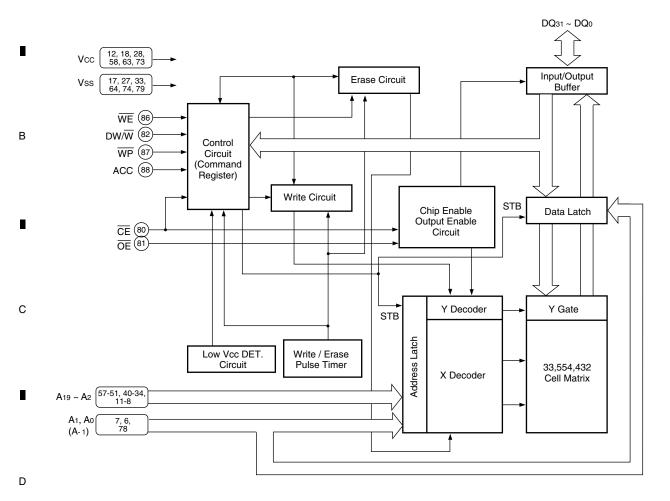
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• Page Mode Flash Memory

Block Diagram

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Pin Function

| No. | Pin Name | I/O | Pin Function | | |
|--|---------------|-----|----------------------------|--|--|
| 57-51, 40-34, 11-6, 78 | A19 - A0, A-1 | I | Address input | | |
| 78-75, 72-65, 62-59, 32-19, 26-19, 16-13 | DQ31 - DQ0 | I/O | Data input/output | | |
| 80 | CE | ı | Chip enable | | |
| 81 | OE | ı | Output enable | | |
| 86 | WE | ı | Write enable | | |
| 82 | DW/W | _ | 16 bit, 32 bit mode switch | | |
| 87 | WP | ı | Write protect | | |
| 88 | ACC | ı | Acceleration | | |
| 17, 27, 33, 64, 74, 79 | Vss | - | Ground | | |
| 12, 18, 28, 58, 63, 73 | Vcc | ı | Power supply | | |
| 1-5, 41-50, 83-85, 89, 90 | N.C. | ı | No connection | | |

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• AD + PLL IC

Pin Arrangement (Top View)

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DSYNC/DIVOUT DGNDPLLTT AGNDADREF DGNDADTTL DVccPLLTTL DGNDADTTI DVccADTTL) DGNDAD3 DVccADTTL EVEN/ODD **AVccAD3 DGNDAD3** EVENODE STORY TO A DESCRIPTION OF STORY **DVccAD3** DVccAD GB6 GB7 GA7 GA6 GA5 XCLKIN (109) (72) GA4 (71) GA3 CLKIN (110) (70) GA2 SYNCIN1 (111) (69) GA1 SYNCIN2 (112) (68) GA0 **CLPIN** (113) (67) DGNDADTTL DVccPLL (114) (66) DGNDAD3 DGNDPLL (115) (65) DVccADTTL AVccVCO (116) 64) BB7 AGNDVCO (117) 63) BB6 62) BB5 RC2 (119) (61) BB4 AVCCIR (120 (60) BB3 IREF (121) (59) GNDAD3 **DPGND** (122) (54) DVccADTTL AGNDIR (123 53 BA7 52 BA6 B/CbCLP (51) BA5 (50) DGNDAD3 (49) BA4 (48) BA3 (47) BA2 R/CrCLP (130 **DPGND (131)** SOGIN1 (132) B/CbIN1 (133) AVccAMPB (134 (46) BA1 SOGIN2 45) BA0 B/CbIN2 (136 (44) DGNDADTTL AGNDAMPB (137 DPGND (138 43) DGNDAD3 (42) DVCCADTTL (41) RB7 (40) RB6 (39) RB5 (38) RB4 (37) RB3 R/CrIN1 (139 AVccAMPR (140 R/CrIN2 (141) AGNDAMPR (142) **G/YOUT** (143) DACTESTOUT (144) DGNDADTTL (B)
RA0 (L) 26 27 \$4 84 26 27 DGNDAD3 (S) R/CrOUT(∞) SEROUT (R) AVccAD3 (9) DVccAD3 (8) AGNDAD3 (8 DGNDAD3 (₩ DVccREG (SDA (RA0 RA5 (XSENABLE (DPGND(AVccADREF(VRT (RA7) NC DGNDREG(3WIRE/I2C XPOWER SAVE DVccADTTL (RA3

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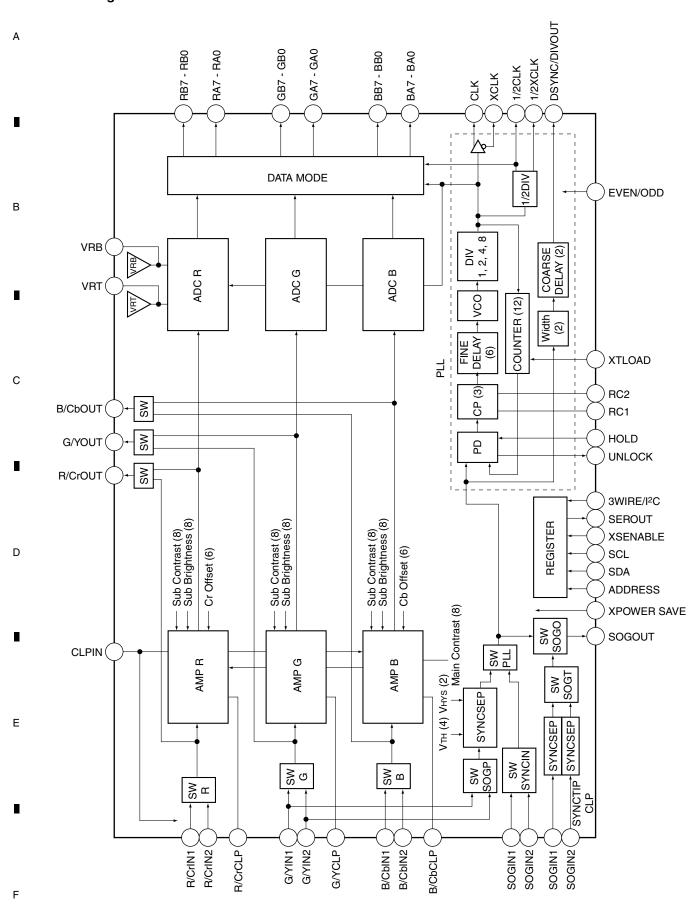
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Block Diagram



PDP-5004

• Pin Function

| No. | Symbol | I/O | Pin Function |
|--------------------------------|------------------------|-----|--|
| 1 | B/CbOUT | 0 | Amplifier output signal monitor |
| 2 | ADDRESS | I | I ² C slave address setting |
| 3 | R/CrOUT | 0 | Amplifier output signal monitor |
| 4 | NC | _ | Not used |
| 5 | NC | - | Not used |
| 6 | XPOWER SAVE | I | Power save setting |
| 7 | DGNDREG | _ | Register GND |
| 8 | DVccREG | _ | Register power supply |
| 9 | SDA | I | Control register data input |
| 10 | SCL | - 1 | Control register CLK input |
| 11 | XSENABLE | - 1 | Enable signal input for 3-wire control register |
| 12 | SEROUT | 0 | 3-wire control register data readout |
| 13 | 3WIRE/I ² C | I | Selection of input between I ² C bus and 3-wire bus |
| 15 | AVccADREF | - | Reference power supply for A/D converter |
| 16, 94 | AVccAD3 | _ | Analog power supply for A/D converter |
| 17 | VRT | 0 | Top reference voltage output for A/D converter |
| 18, 92 | DVccAD3 | - | Digital power supply for A/D converter |
| 19, 32, 42, 54, 65, 76, 90 | DVccADTTL | - | TTL output power supply for A/D converter |
| 20, 33, 44, 55, 67, 77, 89 | DGNDADTTL | - | TTL output GND for A/D converter |
| 21, 22, 24-28, 31 | RA0 - RA7 | 0 | Data output for R-channel port A side |
| 23, 30, 43, 50, 59, 66, 79, 86 | DGNDAD3 | - | Digital GND for A/D converter |
| 29, 80 | AGNDAD3 | - | Analog GND for A/D converter |
| 34-41 | RB0 - RB7 | 0 | Data output for R-channel port B side |
| 45-49, 51-53 | BA0 - BA7 | 0 | Data output for B-channel port A side |
| 56-58, 60-64 | BB0 - BB7 | 0 | Data output for B-channel port B side |
| 68-75 | GA0 - GA7 | 0 | Data output for G-channel port A side |
| 78, 81-85, 87, 88 | GB0 - GB7 | 0 | Data output for G-channel port B side |
| 91 | DVccAD | - | Digital power supply for A/D converter |
| 93 | VRB | 0 | Bottom reference voltage output for A/D converter |
| 95 | AGNDADREF | _ | Reference voltage GND for A/D converter |
| 96 | DVccPLLTTL | _ | TTL output power supply for PLL |
| 97 | DGNDPLLTTL | _ | TTL output GND for PLL |
| 98 | XCLK | 0 | Inverted CLK output |
| 99 | CLK | 0 | CLK output |
| 100 | 1/2XCLK | 0 | Inverted 1/2CLK output |
| 101 | 1/2CLK | 0 | 1/2CLK output |
| 103 | DSYNC/DIVOUT | 0 | DSYNC or DIVOUT signal output |
| 104 | UNLOCK | 0 | Unlock signal output |
| 105 | SOGOUT | 0 | Output for SYNC ON GREEN |
| 106 | HOLD | I | Input for phase comparison disable signal |

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| No. | Symbol | I/O | Pin Function |
|------------------------|--------------|-----|---|
| 107 | XTLOAD | I | Programmable counter reset setting |
| 108 | EVEN/ODD | I | Inverted pulse input of ADC sampling CLK |
| 109 | XCLKIN | I | Inverted CLK input for testing |
| 110 | CLKIN | I | CLK input for testing |
| 111 | SYNCIN1 | I | Sync input 1 |
| 112 | SYNCIN2 | I | Sync input 2 |
| 113 | CLPIN | I | Clamp pulse input |
| 114 | DVccPLL | - | Digital power supply for PLL |
| 115 | DGNDPLL | _ | Digital GND for PLL |
| 116 | AVccVCO | - | Analog power supply for PLL VCO |
| 117 | AGNDVCO | _ | Analog GND for PLL VCO |
| 118 | RC1 | - | External pin for PLL loop filter |
| 119 | RC2 | - | External pin for PLL loop filter |
| 120 | AVccIR | - | Analog power supply for IREF |
| 121 | IREF | ı | Current setup |
| 123 | AGNDIR | - | Analog GND for TREF |
| 124 | G/YIN1 | ı | G/Y signal input 1 |
| 125 | AVccAMPG | - | Power supply for G/Y amplifier block |
| 126 | G/YIN2 | ı | G/Y signal input 2 |
| 127 | AGNDAMPG | - | GND for G/Y amplifier block |
| 128 | G/YCLP | - | Clamp capcitor for brightness |
| 129 | B/CbCLP | - | Clamp capcitor for brightness |
| 130 | R/CrCLP | - | Clamp capcitor for brightness |
| 132 | SOGIN1 | ı | SYNC ON GREEN signal input 1 |
| 133 | B/CbIN1 | ı | B/Cb signal input 1 |
| 134 | AVccAMPB | - | Power supply for B/Cb amplifier block |
| 135 | SOGIN2 | I | SYNC ON GREEN signal input 2 |
| 136 | B/CbIN2 | ı | B/Cb signal input 2 |
| 137 | AGNDAMPB | _ | GND for B/Cb amplifier block |
| 139 | R/CrIN1 | I | R/Cr signal input 1 |
| 140 | AVccAMPR | _ | Power supply for R/Cr amplifier block |
| 141 | R/CrIN2 | I | R/Cr signal input 2 |
| 142 | AGNDAMPR | _ | GND for R/Cr amplifier block |
| 143 | G/YOUT | 0 | Monitor pin for amplifier output signal |
| 144 | DAC TEST OUT | 0 | DAC testing output for amplifier block control register |
| 14, 102, 122, 131, 138 | DPGND | - | GND |

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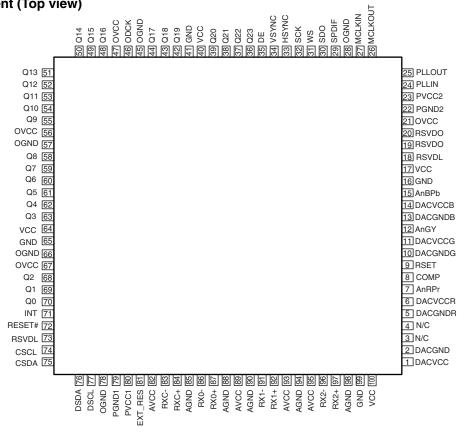
■ SII9993CTG100 (AV I/O ASSY : IC6810)

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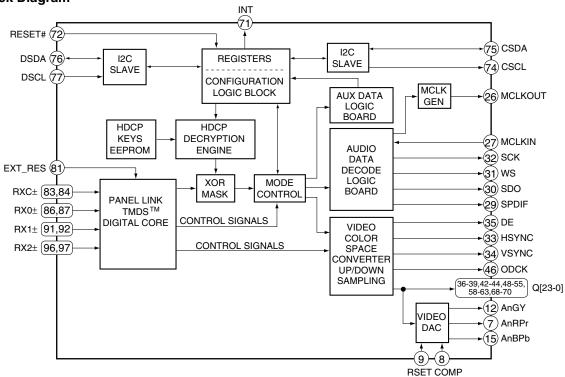
• HDCP Panel Link Receiver

Pin Arrangement (Top view)

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Block Diagram



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• Pin Function

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| No. | Pin Name | I/O | Pin Function | No. | Pin Name | 1/0 | Pin Function |
|-----|----------|-----|---|-----|----------|-----|--------------------------------|
| 1 | DACVCC | _ | DAC power supply (3.3V) | 51 | Q13 | 0 | 24-bit output pixel data bus |
| 2 | DACGND | - | DAC ground | 52 | Q12 | 0 | 24-bit output pixel data bus |
| 3 | N/C | - | No connection | 53 | Q11 | 0 | 24-bit output pixel data bus |
| 4 | N/C | - | No connection | 54 | Q10 | 0 | 24-bit output pixel data bus |
| 5 | DACGNDR | - | DAC Red ground | 55 | Q9 | 0 | 24-bit output pixel data bus |
| 6 | DACVCCR | - | DAC Red power supply (3.3V) | 56 | OVCC | - | Output bus power supply (3.3V) |
| 7 | AnRPr | 0 | Red, Pr output of analog video | 57 | OGND | _ | Output bus ground |
| 8 | COMP | ı | For reference amp. correction of DAC inside | 58 | Q8 | 0 | 24-bit output pixel data bus |
| 9 | RSET | _ | Full scale adjustment resistor input | 59 | Q7 | 0 | 24-bit output pixel data bus |
| 10 | DACGNDG | - | DAC Green ground | 60 | Q6 | 0 | 24-bit output pixel data bus |
| 11 | DACVCCG | - | DAC Green power supply (3.3V) | 61 | Q5 | 0 | 24-bit output pixel data bus |
| 12 | AnGY | 0 | Green, Y output of analog video | 62 | Q4 | 0 | 24-bit output pixel data bus |
| 13 | DACGNDB | _ | DAC Blue ground | 63 | Q3 | 0 | 24-bit output pixel data bus |
| 14 | DACVCCB | _ | DAC Blue power supply (3.3V) | 64 | VCC | _ | Digital power supply (3.3V) |
| 15 | AnBPb | 0 | Blue, Pb output of analog video | 65 | GND | _ | Digital ground |
| 16 | GND | _ | Digital ground | 66 | OGND | _ | Output bus ground |
| 17 | VCC | _ | Digital power supply (3.3V) | 67 | OVCC | _ | Output bus power supply (3.3V) |
| 18 | RSVDL | - 1 | Reserved Fixed to low. | 68 | Q2 | 0 | 24-bit output pixel data bus |
| 19 | RSVDD | 0 | Reserved No connection | 69 | Q1 | 0 | 24-bit output pixel data bus |
| 20 | RSVDD | 0 | Reserved No connection | 70 | Q0 | 0 | 24-bit output pixel data bus |
| 21 | OVCC | _ | Output bus power supply (3.3V) | 71 | INT | 0 | Interruption output |
| 22 | PGND2 | _ | Audio PLL ground | 72 | RESET# | ı | Reset Activ low. |
| 23 | PVCC2 | _ | Audio PLL power supply (3.3V) | 73 | RSVDL | ı | Reserved Fixed to low. |
| 24 | PLLIN | I/O | PLL filter input | 74 | CSCL | I | Configuration I2C clock |
| 25 | PLLOUT | I/O | PLL filter output | 75 | CSDA | I/O | Configuration I2C data |
| 26 | MCCLKOUT | 0 | Audio master clock output | 76 | DSDA | I/O | DDC I2C data |
| 27 | MCCLKIN | I | Reference audio master clock input | 77 | DSCL | I | DDC I2C clock |
| 28 | OGND | _ | Output bus ground | 78 | OGND | _ | Output bus ground |
| 29 | SPDIF | 0 | SPDIF audio output | 79 | PGND1 | _ | PLL ground |
| 30 | SDO | 0 | I2S serial data output | 80 | PVCC1 | _ | PLL power supply (3.3V) |
| 31 | WS | 0 | I2S word selecting output | 81 | EXT_RES | ı | Input impedance adjustment |
| 32 | SCK | 0 | I2S serial clock output | 82 | AVCC | _ | Analog power supply (3.3V) |
| 33 | HSYNC | 0 | Horizontal sync. control signal output | 83 | RXC- | ı | TMDS data input |
| 34 | VSYNC | 0 | Vertical sync. control signal output | 84 | RXC+ | ı | TMDS data input |
| 35 | DE | 0 | Data enable | 85 | AGND | _ | Analog ground |
| 36 | Q23 | 0 | 24-bit output pixel data bus | 86 | RX0- | ı | TMDS data input |
| 37 | Q22 | 0 | 24-bit output pixel data bus | 87 | RX0+ | ı | TMDS data input |
| 38 | Q21 | 0 | 24-bit output pixel data bus | 88 | AGND | - | Analog ground |
| 39 | Q20 | 0 | 24-bit output pixel data bus | 89 | AVCC | - | Analog power supply (3.3V) |
| 40 | VCC | _ | Digital power supply (3.3V) | 90 | AGND | - | Analog ground |
| 41 | GND | _ | Digital ground | 91 | RX1- | ı | TMDS data input |
| 42 | Q19 | 0 | 24-bit output pixel data bus | 92 | RX1+ | I | TMDS data input |
| 43 | Q18 | 0 | 24-bit output pixel data bus | 93 | AVCC | _ | Analog power supply (3.3V) |
| 44 | Q17 | 0 | 24-bit output pixel data bus | 94 | AGND | _ | Analog ground |
| 45 | OGND | _ | Output bus ground | 95 | AVCC | _ | Analog power supply (3.3V) |
| 46 | ODCK | 0 | Data clock output | 96 | RX2- | ı | TMDS data input |
| 47 | ovcc | _ | Output bus power supply (3.3V) | 97 | RX2+ | ı | TMDS data input |
| 48 | Q16 | 0 | 24-bit output pixel data bus | 98 | AGND | _ | Analog ground |
| 49 | Q15 | 0 | 24-bit output pixel data bus | 99 | GND | _ | Digital ground |
| 50 | Q14 | 0 | 24-bit output pixel data bus | 100 | VCC | | Digital power supply (3.3V) |

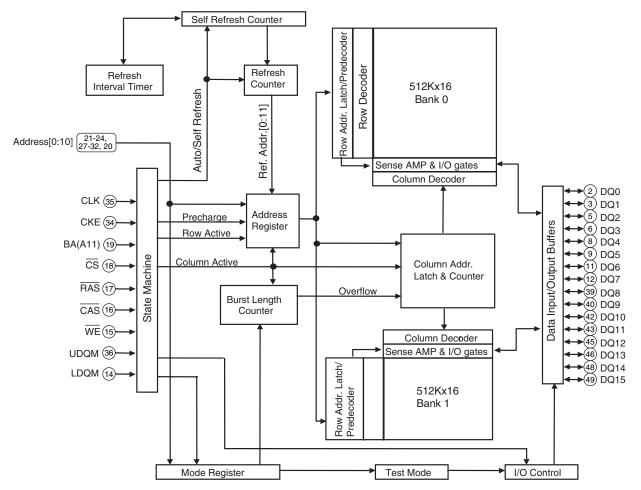
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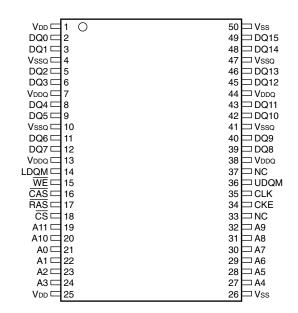
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Block Diagram



• Pin Arrangement

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PDP-5004

• Pin Function

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| No. | Pin Name | I/O | Pin Function |
|-----|----------|-----|------------------------|
| 1 | VDD | _ | Power supply |
| 2 | DQ0 | I/O | Data input/output |
| 3 | DQ1 | I/O | Data input/output |
| 4 | VSSQ | _ | Ground for DQ |
| 5 | DQ2 | I/O | Data input/output |
| 6 | DQ3 | I/O | Data input/output |
| 7 | VDDQ | _ | Power supply for DQ |
| 8 | DQ4 | I/O | Data input/output |
| 9 | DQ5 | I/O | Data input/output |
| 10 | VSSQ | _ | Ground for DQ |
| 11 | DQ6 | I/O | Data input/output |
| 12 | DQ7 | I/O | Data input/output |
| 13 | VDDQ | _ | Power supply for DQ |
| 14 | LDQM | I | Data input/output mask |
| 15 | /WE | I | Write enable |
| 16 | /CAS | I | Column address strobe |
| 17 | /RAS | I | Row address strobe |
| 18 | /CS | I | Chip select input |
| 19 | A11 | I | Address input |
| 20 | A10 | I | Address input |
| 21 | A0 | I | Address input |
| 22 | A1 | I | Address input |
| 23 | A2 | I | Address input |
| 24 | A3 | I | Address input |
| 25 | VDD | _ | Power supply |
| 26 | VSS | _ | Ground |
| 27 | A4 | I | Address input |
| 28 | A5 | I | Address input |
| 29 | A6 | I | Address input |
| 30 | A7 | I | Address input |
| 31 | A8 | I | Address input |
| 32 | A9 | I | Address input |
| 33 | NC | _ | No connection |
| 34 | CKE | I | Clock enable |
| 35 | CLK | I | System clock input |
| 36 | UDQM | I | Data input/output mask |
| 37 | NC | _ | No connection |
| 38 | VDDQ | _ | Power supply for DQ |
| 39 | DQ8 | I/O | Data input/output |
| 40 | DQ9 | I/O | Data input/output |
| 41 | VSSQ | _ | Ground for DQ |
| 42 | DQ10 | I/O | Data input/output |
| 43 | DQ11 | I/O | Data input/output |
| 44 | VDDQ | _ | Power supply for DQ |
| 45 | DQ12 | I/O | Data input/output |
| 46 | DQ13 | I/O | Data input/output |
| 47 | VSSQ | _ | Ground for DQ |
| 48 | DQ14 | I/O | Data input/output |
| 49 | DQ15 | I/O | Data input/output |
| 50 | VSS | _ | Ground |

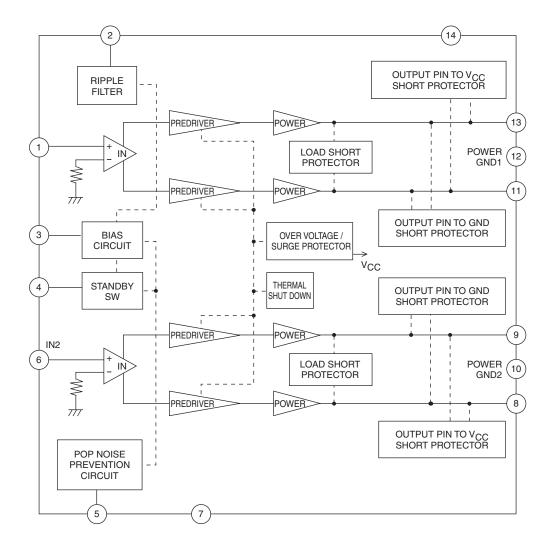
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Block Diagram



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PDP-5004

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8. PANEL FACILITIES

■ MAIN UNIT

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PDP-4304 (4) Main unit PDP-5004 Operation panel on the main unit ON STANDBY STANDBY/ON INPUT SCREEN SIZE ∨VOLUME∧ AUTO SET UP (2) (3) (5) **(6)** (7)(8) (9)

Main unit

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1 Remot e control sensor

Point the remote control toward the remote sensor to operate the unit.

2 ON indicator

Lights green when the plasma display is operating. When flashing, the indicator is used to indicate error messages.

(3) STANDBY indicator

Lights red when the unit is in standby mode. When flashing, the indicator is used to indicate error messages.

■ ④ Handles

The plasma displays PDP-5004 and PDP-4304 utilize differing methods of handle attachment, but the handles themselves are used in the same way.

Operation panel on the main unit

5 STANDBY/ON button

Press to put the display in operation or standby mode.

6 INPUT button

3

Press to select the input.

7 SCREEN SIZE button

Press to select the screen size.

8 VOLUME (+/-) but tons

When not indicated for use in onscreen menu items, these buttons are used for adjusting the sound volume.

(9) AUTO SET UP button

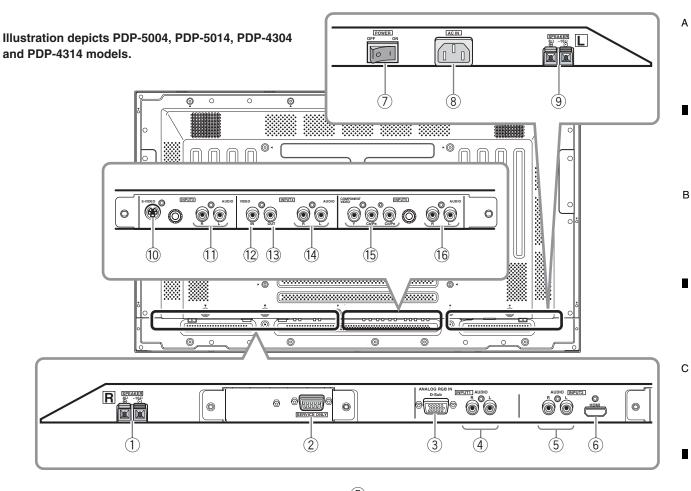
When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

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Plasma Display Section

The plasma display is provided with 5 video input connectors, 1 video output connector, audio input jacks and speaker terminals.

For instructions regarding connections, consult the pages noted in parentheses by each item.

(1) SPEAKER (R) terminal

For connection of an external right speaker. Connect a speaker whose impedance is $8-16\Omega$.

(2) RS-232 Terminal (used in the factory setup)

3 ANALOG RGB IN (INPUT1) (mini D-sub 15 pin)

For connecting components equipped with RGB outputs jacks, such as a personal computer or external RGB decoder; or components equipped with component output jacks, such as a DVD recorder Make sure that the connection made corresponds to the format of the signal output from the connected component.

4 AUDIO (INPUT1) (RCA pin jack)

5

Use to obtain sound when INPUT1 is selected. Connect this jack to the audio output connector of the device connected to INPUT1 to this unit.

Note

The left audio channel (L) jack is not compatible with monaural input sources.

5 AUDIO (INPUT2) (RCA Pin jacks)

Use to obtain sound when INPUT2 (analog audio) is selected.

Connect these jacks to the audio output connectors of components connected to INPUT2.

Note

The left audio channel (L) jack is not compatible with monaural input sources.

6 HDMI (INPUT2) (HDMI jack)

For connection of components that have a digital video output terminal such as a digital set top box, DVD player, etc. compatible with HDCP. Before attempting to connect one of these devices, read its operating instructions to make sure that it can be connected.

(HDCP = High-bandwidth Digital Content Protection) (HDMI = High Definition Multimedia Interface)

7 MAIN POWER switch

Use to switch the main power of the plasma display on and off.

8 AC IN

A power cable is furnished with the plasma display; connect one end of the power cable to this connector, and the other end to a standard AC power source.

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9 SPEAKER (L) terminal

For connection of an external left speaker. Connect a speaker that has an impedance of $8-16\,\Omega$.

A 10 S-VIDEO (INPUT3) (S-video jack)

For connection of components that have an S-video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

1 AUDIO R/L (INPUT3) (RCA Pin jacks)

Use to obtain sound when INPUT3 is selected. Connect these jacks to the audio output connectors of components connected to INPUT3 to this unit.

12 VIDEO IN (INPUT4) (RCA Pin jack)

For connection of components that have a composite video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

(3) VIDEO OUT (INPUT4) (RCA Pin jack)

Use the VIDEO OUT (INPUT4) jack to output the video signal to an external monitor or other component.

Note

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The video signal will not be output from the VIDEO OUT (INPUT4) jack when the main power of this display is off or in standby mode.

14 AUDIO R/L (INPUT4) (RCA Pin jacks)

connected to INPUT5 to this unit.

Use to obtain sound when INPUT4 is selected. Connect these jacks to the audio output connectors of components connected to INPUT4 to this unit.

(15) COMPONENT VIDEO (INPUT5) (RCA Pin jacks)
For connection of components that have component

video output jacks such as a DVD recorder.

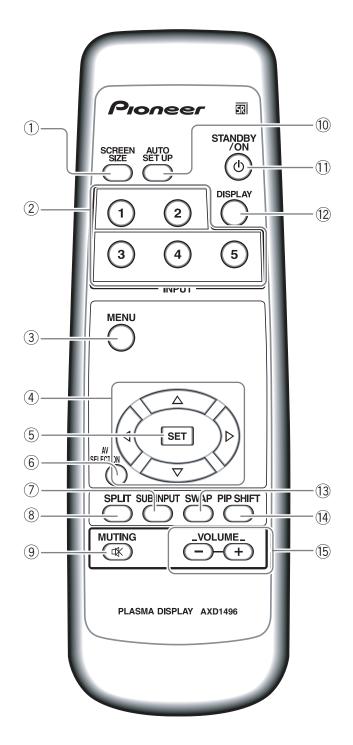
(16) AUDIO R/L (INPUT5) (RCA Pin jacks) Use to obtain sound when INPUT5 is selected. Connect these jacks to the audio output connectors of components

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■ REMOTE CONTROL UNIT

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[PDP-5004, PDP-4304]



1 SCREEN SIZE button

Press to select the screen size.

2 INPUT buttons

Press to select the input.

3 MENU button

Press to open and close the on-screen menu.

4 ADJUST (▲/▼/►/◄) buttons

Use to navigate menu screens and to adjust various settings on the unit.

5 SET button

Press to adjust or enter various settings on the unit.

(6) AV SELECTION button

Press to switch to Picture settings.

(VIDEO mode: DYNAMIC, STANDARD, MOVIE,

GAME, USER

PC mode: STANDARD, USER)

(7) SUB INPUT button

During multi-screen display, use this button to change inputs to subscreens.

(8) SPLIT button

Press to switch to multi-screen display.

(9) MUTING button

Press to mute the volume.

10 AUTO SET UP button

When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

(1) STANDBY/ON button

Press to put the unit in operation or standby mode.

12 DISPLAY button

Press to view the unit's current input and setup mode.

(13) SWAP button

During multi-screen display, use this button to switch between main screen and subscreen.

(14) PIP SHIFT button

When using PinP mode with multi-screen display, use this button to move the position of subscreen.

15 VOLUME (+/-) buttons

Use to adjust the volume.

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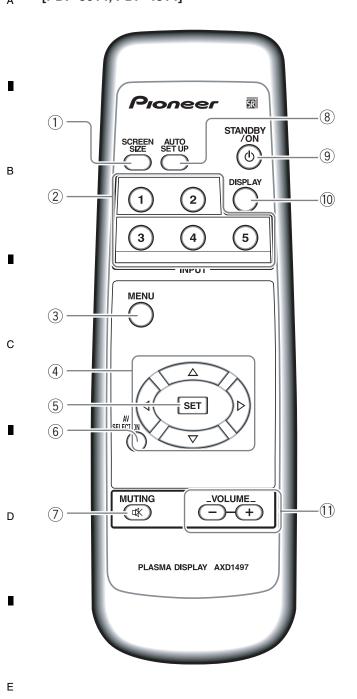
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PDP-5004

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[PDP-5014, PDP-4314]



1 SCREEN SIZE button

Press to select the screen size.

2 INPUT buttons

3

Press to select the input.

(3) MENU button

Press to open and close the on-screen menu.

4 ADJUST (▲/▼/►/◄) buttons

Use to navigate menu screens and to adjust various settings on the unit.

(5) SET button

Press to adjust or enter various settings on the unit.

6 AV SELECTION button

Press to switch to Picture settings.
(VIDEO mode: DYNAMIC, STANDARD, MOVIE, GAME, USER

PC mode: STANDARD, USER)

7 MUTING button

Press to mute the volume.

8 AUTO SET UP button

When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

(9) STANDBY/ON button

Press to put the unit in operation or standby mode.

10 DISPLAY button

Press to view the unit's current input and setup mode.

1 VOLUME (+/–) buttons

Use to adjust the volume.

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■ INSTALLATION OF THE UNIT UNIT

Installation using the optional PIONEER stand or installation bracket

- · Please be sure to request installation or mounting of this unit or the installation bracket by the dealer where purchased.
- When installing, be sure to use the bolts provided with the stand or installation bracket.
- For details concerning installation, please refer to the instruction manual provided with the st and or installation bracket.

Installation using accessories other than the PIONEER stand or installation bracket (sold separately)

- When possible, please install using parts and accessories manufactured by PIONEER. PIONEER will not be held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.
- For custom installation, please consult the dealer where the unit was purchased.

Wall-mount installation of the unit

This unit has been designed with bolt holes for wallmount installation, etc. The installation holes that can be used are shown in the diagram below.

- Be sure to attach in 4 or more locations above and below, left and right of the center line.
- Use bolts that are long enough to be inserted 1/2 inch (12 mm) to 11/16 inch (18 mm) into the main unit from the attaching surface for both a holes. Refer to the side view diagram below.
- As this unit is constructed with glass, be sure to install it on a flat, unwarped surface.

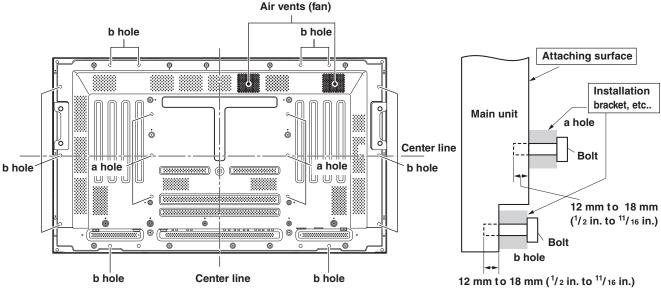
CAUTION

To avoid malfunction, overheating of this unit, and possible fire hazard, make sure that the vents on the main unit are not blocked when installing. Also, as hot air is expelled from the air vents, be careful of deterioration and dirt build up on rear surface

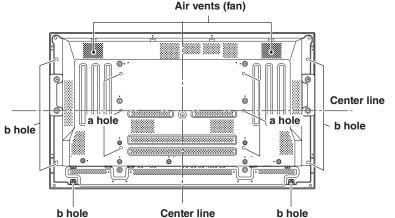


CAUTION

Please be sure to use an M8 (Pitch = 1.25 mm) bolt (Only this size bolt can be used).



Rear view diagram (PDP-5004/PDP-5014)



Rear view diagram (PDP-4304/PDP-4314)

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This display unit weighs at least 67 lbs (30 kg) and has little front-to-back depth, making it very unstable when stood on edge. As a result, two or more persons should cooperate when unpacking, moving, or installing the display.

Side view diagram



CAUTION

This unit incorporates a thin design. To ensure safety if vibrated or shaken, please be sure to take measures to prevent the unit from tipping over.

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Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3271

PLASMA DISPLAY

PDP-436PE PDP-436PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Model | Туре | Power Requirement | Remarks |
|-----------|-------|-------------------|---------|
| PDP-436PE | WYVI | AC220 - 240V | |
| PDP-436PU | KUCXC | AC120V | |

Note:

Media Receivers up to Generation 5 (G5) cannot be connected with this unit. Be sure to use a Media Receiver of Generation 6 (G6) (ex.: PDP-R06**, etc.).



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

■ Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
 - 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
 - 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

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PDP-436PE

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Leakage Current Cold Check

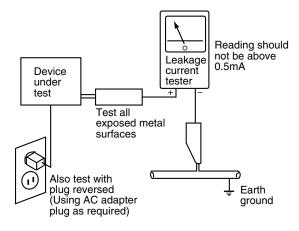
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3 M\Omega$ and a maximum resistor reading of $5 M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

B 1. Power Cord

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- 2. AC Inlet
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

If the procedures described in "7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM" are performed before the power is turned off, the voltage will be discharged in about 30 seconds.

| 1. POWER SUPPLY Unit | (205V) |
|----------------------|-----------------|
| 2. 43 X DRIVE Assy | (-180V to 205V) |
| 3. 43 Y DRIVE Assy | (500V) |
| 4. 43 SCAN A Assy | (500V) |
| 5. 43 SCAN B Assy | (500V) |
| 6. SUS CLAMP 1 Assy | (-180V to 205V) |
| 7. SUS CLAMP 2 Assy | (-180V to 205V) |

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

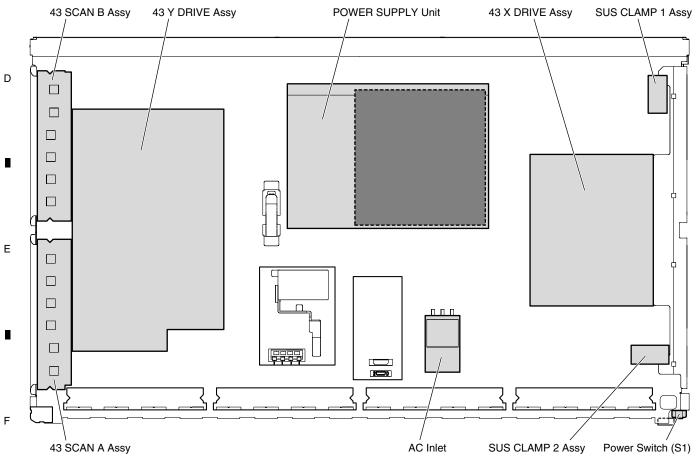


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

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3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

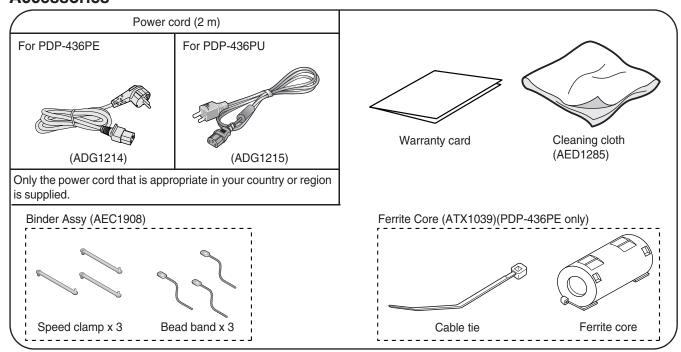
| Item | 43" Plasma Display, Model: PDP-436PE | 43" Plasma Display, Model: PDP-436PU |
|-------------------|---|--|
| Number of Pixels | 1024 × 768 pixels | 1024 × 768 pixels |
| Audio Amplifier | 13 W + 13 W (1 kHz, 10 %, 8Ω) | 13 W + 13 W (1 kHz, 10 %, 8Ω) |
| Surround System | SRS/FOCUS/TruBass | SRS/FOCUS/TruBass |
| Power Requirement | 220 - 240 V AC, 50/60 Hz, 344 W (0.4 W Standby) | 120 V AC, 60 Hz, 296 W (0.2 W Standby) |
| Dimensions | 1076 (W) × 632 (H) × 92 (D) mm | 1076 (W) × 632 (H) × 92 (D) mm (42 3/8 (W) × 24 29/32 × (H) 3 5/8 × (D) inches) |
| Weight | 25.8 kg (56.9 lbs.) | 25.8 kg (56.9 lbs.) |

• Design and specifications are subject to change without notice.

Trademarks

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Accessories



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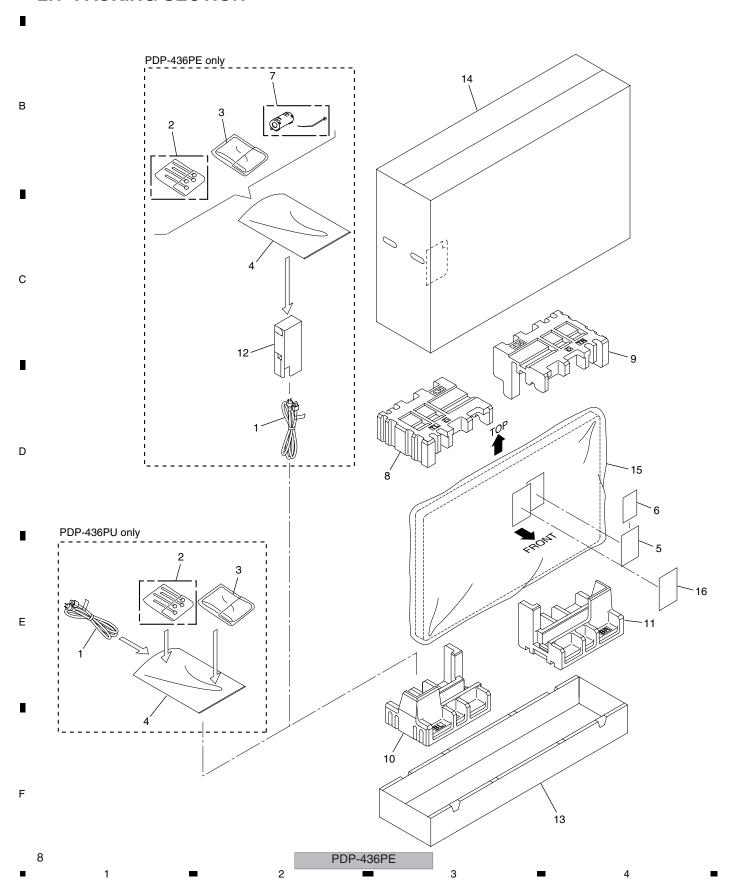
2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING SECTION

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(1) PACKING SECTION PARTS LIST

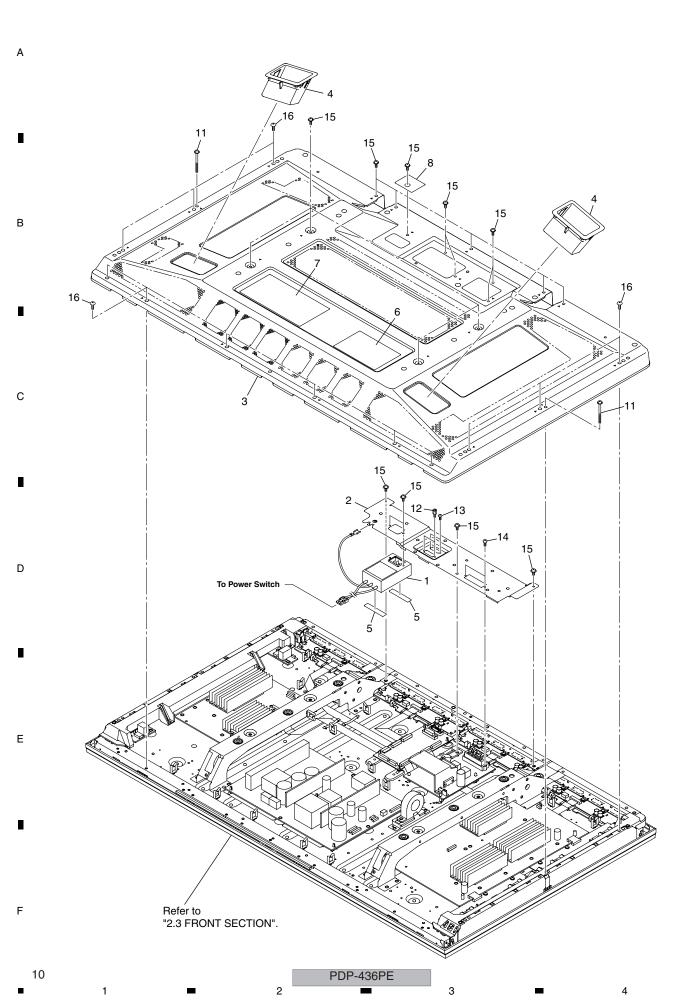
| Mark | <u>No.</u> | <u>Description</u> | Part No. |
|-------------|------------|--------------------|------------------------|
| \triangle | 1 | Power Cord | See Contrast table (2) |
| | 2 | Binder Assy | AEC1908 |
| | 3 | Cleaning Cloth | AED1285 |
| | 4 | Polyethylene Bag S | See Contrast table (2) |
| NSP | 5 | Catalogue Bag | See Contrast table (2) |
| NSP | 6 | Warranty card | See Contrast table (2) |
| <u> </u> | 7 | Ferrite Core | See Contrast table (2) |
| | 8 | Pad (43T-L) | See Contrast table (2) |
| | 9 | Pad (43T-R) | See Contrast table (2) |
| | 10 | Pad (43B-L) | See Contrast table (2) |
| | 11 | Pad (43B-R) | See Contrast table (2) |
| | 12 | Power Cord Case | See Contrast table (2) |
| | 13 | Under Carton | See Contrast table (2) |
| | 14 | Upper Carton | See Contrast table (2) |
| | 15 | Mirror Mat | See Contrast table (2) |
| | 16 | Caution Card | See Contrast table (2) |

(2) CONTRAST TABLE
PDP-436PE/WYVI and PDP-436PU/KUCXC are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-436PE/WYVI | PDP-436PU/KUCXC |
|-------------|-----|------------------------|----------------|-----------------|
| <u>(1)</u> | 1 | Power Cord | ADG1214 | ADG1215 |
| | 4 | Polyethylene Bag S | AHG1338 | AHG1348 |
| NSP | 5 | Catalogue Bag | AHG1340 | AHG1347 |
| NSP | 6 | Warranty Card | ARY1114 | ARY1145 |
| \triangle | 7 | Ferrite Core | ATX1039 | Not used |
| | 8 | Pad (43T-L) | AHA2431 | AHA2463 |
| | 9 | Pad (43T-R) | AHA2432 | AHA2464 |
| | 10 | Pad (43B-L) | AHA2433 | AHA2465 |
| | 11 | Pad (43B-R) | AHA2434 | AHA2466 |
| | 12 | Power Cord Case | AHC1073 | Not used |
| | 13 | Under Carton (436) | AHD3346 | Not used |
| | 13 | Under Carton (436PU) | Not used | AHD3380 |
| | 14 | Upper Carton (436PE) | AHD3368 | Not used |
| | 14 | Upper Carton (436PU) | Not used | AHD3384 |
| | 15 | Mirror Mat | AHG1284 | AHG1352 |
| | 16 | Caution Card | ARM1232 | ARM1239 |

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(1) REAR SECTION PARTS LIST

| Mark I | <u>No.</u> | Description | Part No. | |
|----------|------------|--------------------|------------------------|---|
| <u> </u> | 1 | AC Inlet | AKP1274 | |
| | 2 | Control Plate | AND1185 | Α |
| | 3 | Rear Case (436) | ANE1640 | |
| | 4 | Inner Grip Assy | AMR3434 | |
| | 5 | AC Cushion | AEC2035 | |
| NSP | 6 | Model Label | See Contrast table (2) | |
| | 7 | Caution Label | See Contrast table (2) | |
| | 8 | AC Label PE | See Contrast table (2) | |
| | 9 | •••• | | |
| | 10 | •••• | | |
| | 11 | Screw (3 x 40P) | ABA1332 | В |
| | 12 | Hexagon Head Screw | BBA1051 | |
| | 13 | Screw | PMZ26P060FTB | |
| | 14 | Screw | BPZ30P080FTB | |
| | 15 | Screw | AMZ30P060FTB | |
| | 16 | Screw | TBZ40P080FTB | |

(2) CONTRAST TABLE
PDP-436PE/WYVI and PDP-436PU/KUCXC are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-436PE/WYVI | PDP-436PU/KUCXC |
|------|-----|------------------------|----------------|-----------------|
| NSP | 6 | Model Label (436PE) | AAL2670 | Not used |
| NSP | 6 | Model Label (436PU) | Not used | AAL2680 |
| | 7 | Caution Label | AAX3117 | AAX3075 |
| | 8 | AC Label PE | AAX3194 | Not used |

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Refer to "2.4 CHASSIS SECTION (1/2)",

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(1) FRONT SECTION PARTS LIST

| Mark No. | <u>Description</u> | Part No. | |
|----------|---------------------------|------------------------|--|
| 1 | Front Case Assy (436PE) | AMB2855 | |
| 2 | Corner Cushion | AEB1416 | |
| 3 | Pioneer Name Plate | AAM1096 | |
| 4 | Power Button | AAD4133 | |
| 5 | Coil Spring | ABH1120 | |
| 6 | Blind Cushion | AEB1415 | |
| 7 | Insulation Sheet A | AED1283 | |
| 8 | Insulation Sheet B | AED1284 | |
| 9 | Power Display Label (436) | See Contrast table (2) | |
| 10 | Screw Rivet | AEC1877 | |

(2) CONTRAST TABLE

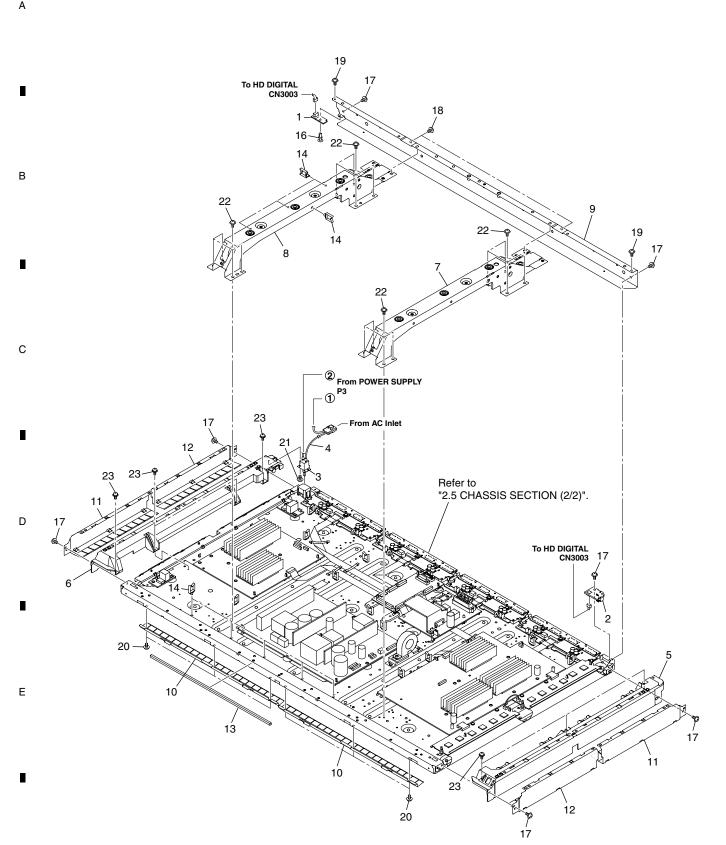
PDP-436PE/WYVI and PDP-436PU/KUCXC are constructed the same except for the following:

| Mark | No. | Symbol and Description | PDP-436PE/WYVI | PDP-436PU/KUCXC |
|------|-----|---------------------------|----------------|-----------------|
| | 9 | Power Display Label (436) | AAX3205 | Not used |

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| ■ CHA | SSI | 5 SECTION (1/2) PARTS | 6 S LIST | - | 7 | - | 8 | • |
|-------------|-----|---------------------------|--------------|---|---|---|---|---|
| Mark | | Description | Part No. | | | | | |
| | 1 | HD LED Assy | AWW1029 | | | | | |
| | 2 | HD IR Assy | AWW1030 | | | | | _ |
| <u>(1</u>) | 3 | Power Switch (S1) | ASG1092 | | | | | Α |
| • | 4 | Housing Wire (43)(J103) | ADX3126 | | | | | |
| | 5 | Front Chassis VL (43) | AMA1016 | | | | | |
| | 6 | Front Chassis VR (43) | AMA1017 | | | | | |
| | 7 | Sub Frame L Assy (436) | ANA1864 | | | | | |
| | 8 | Sub Frame R Assy (436) | ANA1865 | | | | | |
| | 9 | Front Chassis H Assy (43) | ANA1884 | | | | | |
| | 10 | Panel Holder H (43) | ANG2772 | | | | | |
| | 11 | Panel Holder V1 (43) | ANG2773 | | | | | В |
| | 12 | Panel Holder V2 (43) | ANG2774 | | | | | |
| | 13 | Cushion | AEB1424 | | | | | |
| | 14 | Wire Saddle | AEC1745 | | | | | |
| | 15 | •••• | | | | | | |
| | 16 | Nyron Rivet | AEC1671 | | | | | |
| | 17 | Screw | ABZ30P080FTC | | | | | |
| | 18 | Screw | AMZ30P060FTB | | | | | |
| | 19 | Screw | APZ30P080FTB | | | | | |
| | 20 | Screw | BBZ30P060FTC | | | | | С |
| | 21 | Screw | BPZ30P080FTB | | | | | |
| | 22 | Screw | TBZ40P080FTB | | | | | |
| | 23 | Screw | VBB30P080FNI | | | | | |
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|----------------------------------|-----|-------------------------|----------|--|--|--|--|--|
| CHASSIS SECTION (2/2) PARTS LIST | | | | | | | | |
| Mark | No. | Description | Part No. | | | | | |
| | 1 | 43 X DRIVE Assy | AWW1074 | | | | | |
| | 2 | SUS CLAMP 1 Assy | AWW1022 | | | | | |
| | 3 | SUS CLAMP 2 Assy | AWW1023 | | | | | |
| | 4 | 43 Y DRIVE Assy | AWV2256 | | | | | |
| | 5 | HD DIGITAL Assy | AWW1028 | | | | | |
| | 6 | HD AUDIO Assy | AWV2203 | | | | | |
| <u> </u> | 7 | POWER SUPPLY Unit | AXY1112 | | | | | |
| | 8 | Ring Core with Case | ATX1042 | | | | | |
| | 9 | Ferrite Core | ATX1048 | | | | | |
| | 10 | Flexible Cable (J201) | ADD1299 | | | | | |
| | 11 | Flexible Cable (J202) | ADD1300 | | | | | |
| | 12 | Flexible Cable (J203) | ADD1301 | | | | | |
| | 13 | Flexible Cable (J204) | ADD1302 | | | | | |
| | 14 | Flexible Cable (J205) | ADD1303 | | | | | |
| | 15 | Flexible Cable (J206) | ADD1304 | | | | | |
| | 16 | 4P Housing Wire (J108) | ADX3131 | | | | | |
| | 17 | 6P Housing Wire (J109) | ADX3132 | | | | | |
| | 18 | 12P Housing Wire (J110) | ADX3133 | | | | | |
| | 19 | 6P Housing Wire (J111) | ADX3134 | | | | | |
| | | | | | | | | |

21 14P Housing Wire (J104) ADX3162 22 3P Housing Wire (J105) ADX3128 23 9P Housing Wire (J101) ADX3124 24 8P Housing Wire (J102) ADX3125 5P Housing Wire (J106) ADX3129 25 6P Housing Wire (J107) 26 ADX3130 27 Conductive Plate XA ANG2776 28 FC Stay ANG2815

ADX3136

AEC-093

AEC1188

3P Housing Wire (J113)

20

29

NSP 30

Binder

PCB Spacer

31 Flat Clamp AEC1879 PCB Spacer 32 AEC1941 33 Drive Silicone Sheet AEH1095 Power Supply Insulation Sheet AMR3447 34 35 Audio Insulation Sheet AMR3469

Wire Saddle AEC1745 36 • • • • • 37 AEC1971

38 Mini Clamp ABA1324 39 Screw 40 Screw PMB30P060FTC

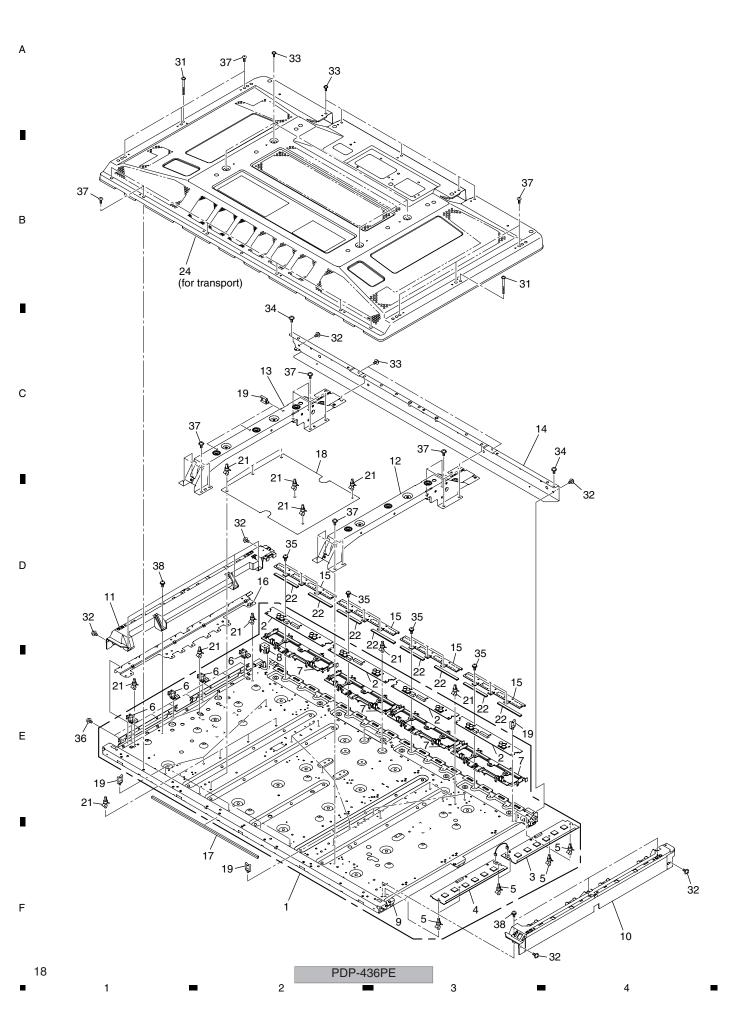
VBB30P080FNI 41 Screw

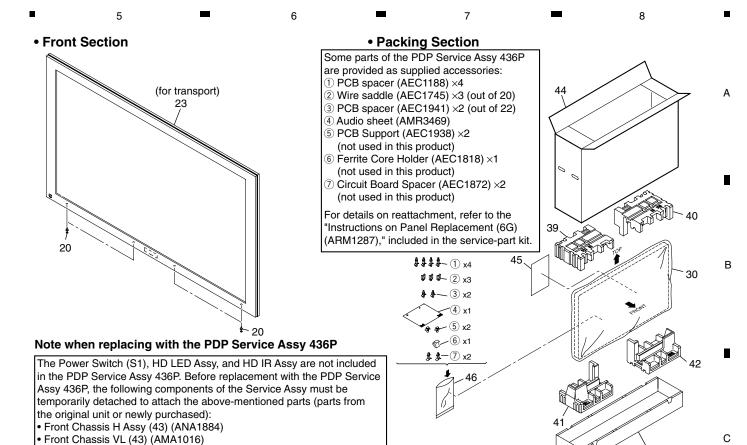
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PDP SERVICE ASSY 436P (AWU1135) PARTS LIST

• Front Chassis VR (43) (AMA1017)

| Mark No. | <u>Description</u> | Part No. | Mark No. | Description | Part No. | |
|----------|-----------------------------------|--------------------|----------|----------------------|--------------|----|
| NSP 1 | Panel Chassis (436) Assy | AWU1145 | 25 | •••• | | |
| NSP 2 | 43 ADDRESS Assy | AWV2204 | 26 | •••• | | |
| NSP 3 | 43 SCAN A Assy | AWW1018 | 27 | •••• | | |
| NSP 4 | 43 SCAN B Assy | AWW1019 | 28 | •••• | | |
| 5 | PCB Spacer | AEC1944 | 29 | •••• | | |
| | | | 30 | Protect Sheet | AHG1331 | D |
| 6 | Conductive Plate Holder | AMR3446 | | | | |
| 7 | Address Holder Assy (436) | AMR3455 | 31 | Screw (3x40P) | ABA1332 | |
| 8 | Tube Cover | AMR3445 | 32 | Screw | ABZ30P080FTC | |
| NSP 9 | Chassis Assy (436) | ANA1833 | 33 | Screw | AMZ30P060FTB | |
| 10 | Front Chassis VL (43) | AMA1016 | 34 | Screw | APZ30P080FTB | _ |
| | | | 35 | Screw | BBB30P120FNI | |
| 11 | Front Chassis VR (43) | AMA1017 | | | | |
| 12 | Sub Frame L Assy (436) | ANA1864 | 36 | Screw | PMB30P060FTC | |
| 13 | Sub Frame R Assy (436) | ANA1865 | 37 | Screw | TBZ40P080FTB | |
| 14 | Front Chassis H Assy (43) | ANA1884 | 38 | Screw | VBB30P080FNI | |
| 15 | Address Heatsink (436) | ANH1641 | 39 | Pad (43T-L) | AHA2431 | Е |
| | | | 40 | Pad (43T-R) | AHA2432 | |
| 16 | Conductive Plate XA | ANG2776 | | | | |
| 17 | Cushion | AEB1424 | 41 | Pad (43B-L) | AHA2433 | |
| 18 | Power Supply Insulation Sheet | AMR3447 | 42 | Pad (43B-R) | AHA2434 | |
| 19 | Wire Saddle | AEC1745 | 43 | Under Carton | AHD3346 | • |
| 20 | Screw Rivet | AEC1877 | NSP 44 | Upper Carton | AHD3436 | _ |
| | | | NSP 45 | Exchange Panel Sheet | ARM1287 | |
| 21 | PCB Spacer | AEC1941 | | | | |
| 22 | Address Silicone A | AEH1093 | 46 | Vinyl Bag S | AHG1338 | |
| 23 | Front Case Assy 436 service | AMB2895 | | | | _ |
| | (for transportation: please do no | ot use for repair) | | | | F |
| 24 | Rear Case (436) | ANE1640 | | | | |
| | (for transportation: please do no | ot use for repair) | | | | |
| | | | | | | 40 |

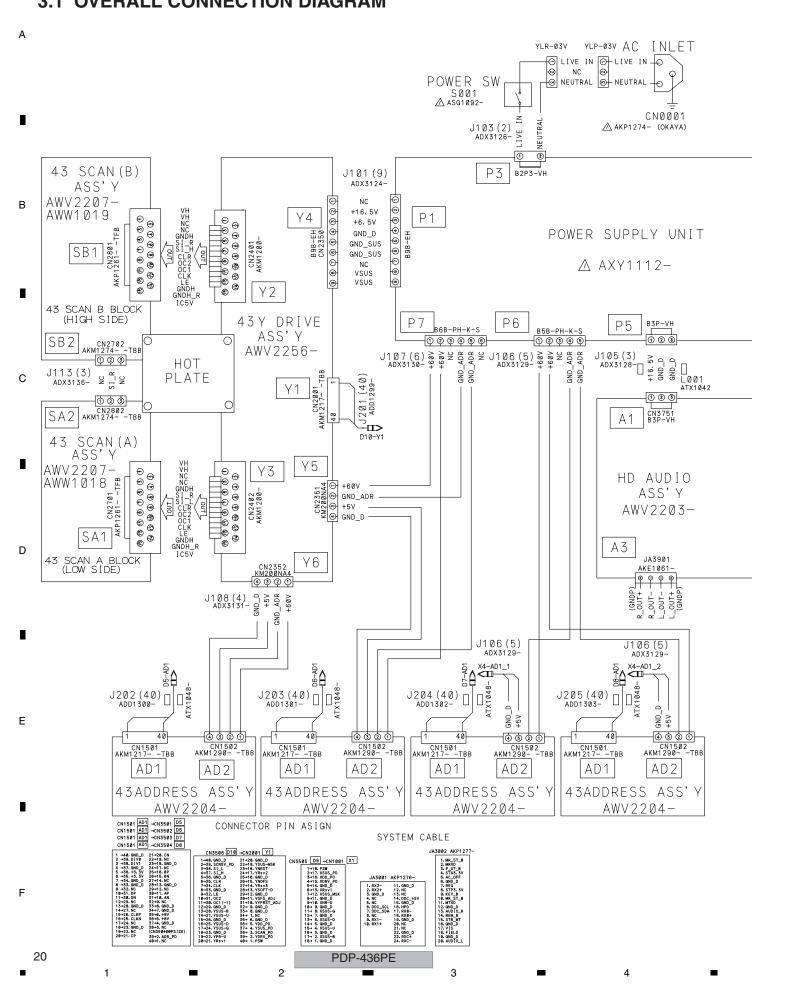
19

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3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM 3.1 OVERALL CONNECTION DIAGRAM

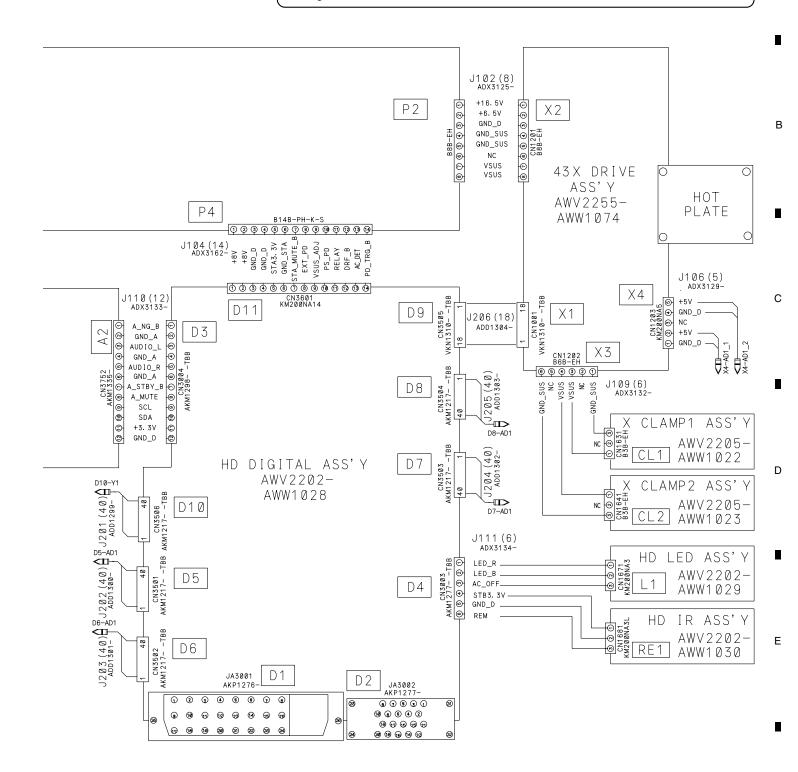


 When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

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• The <u>Mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.</u>



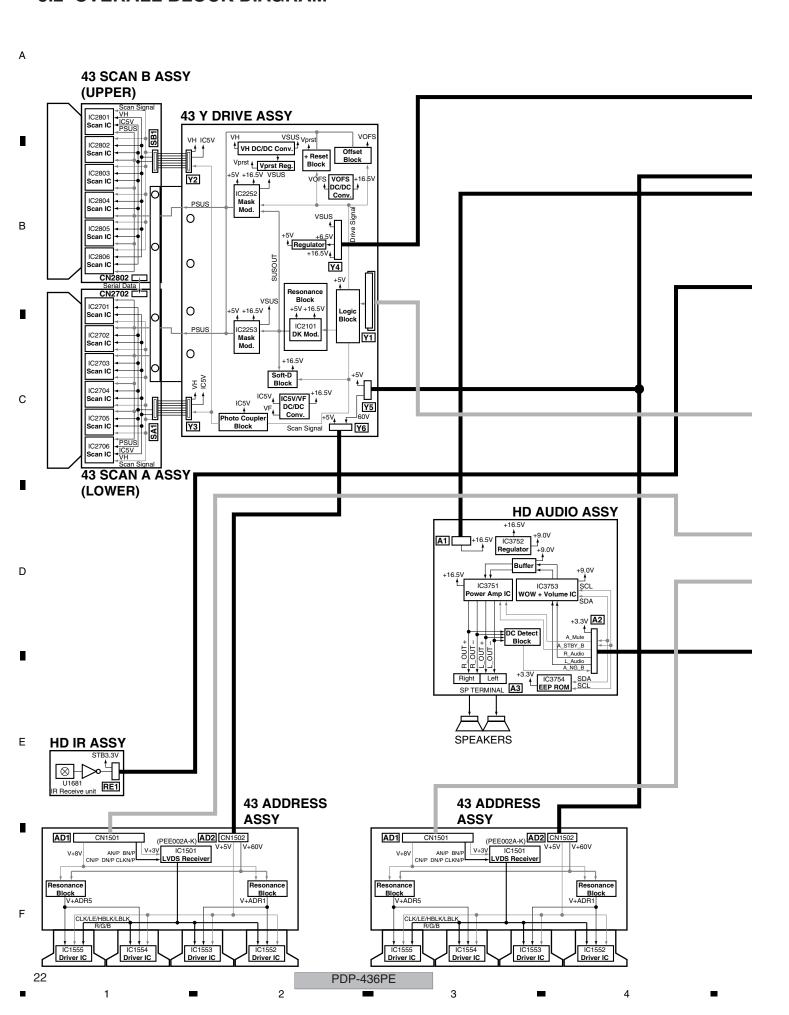
6

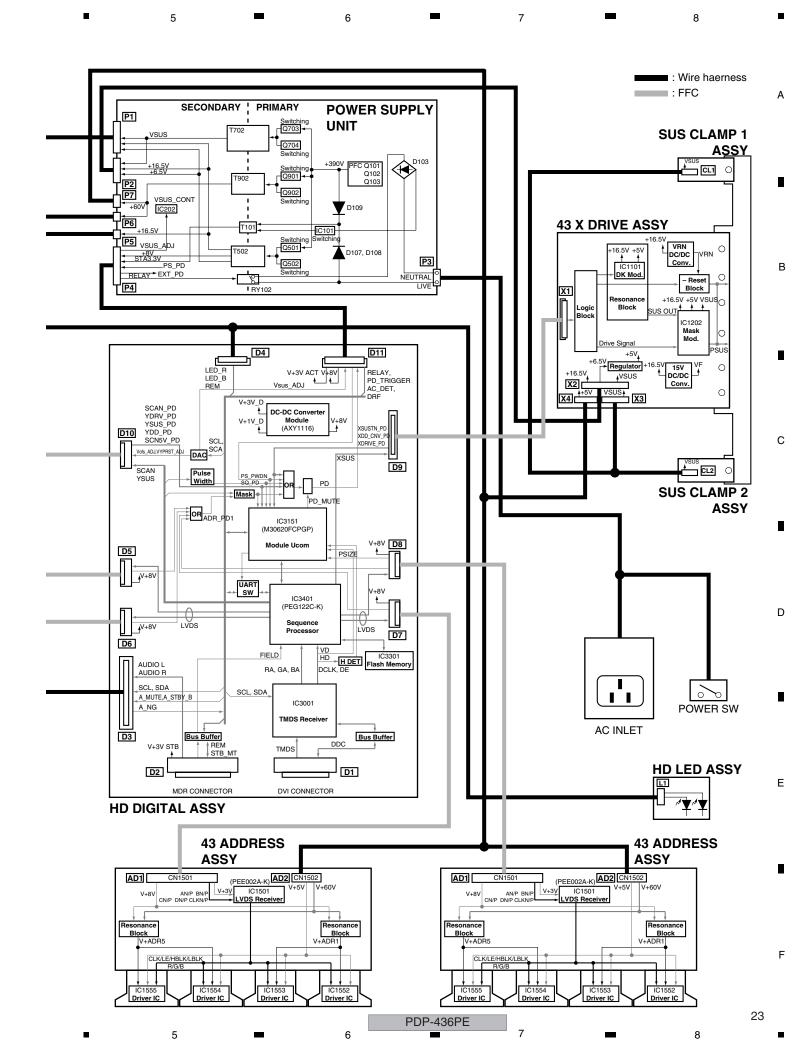
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F

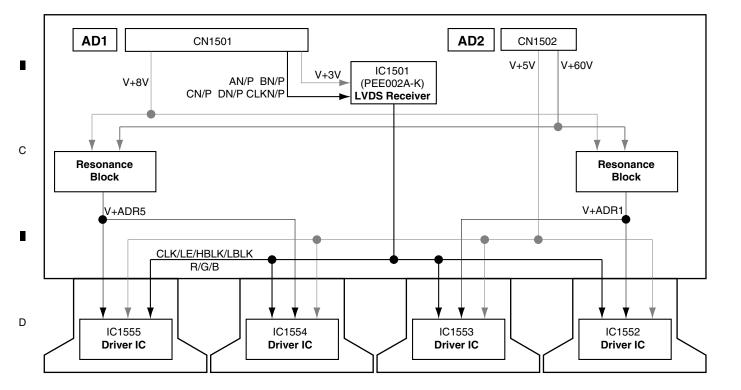
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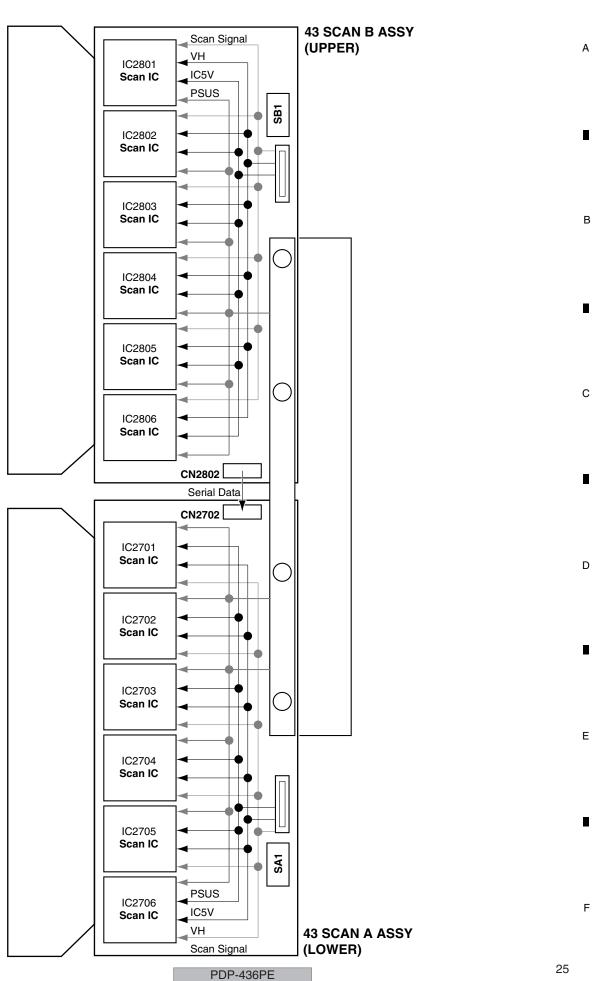
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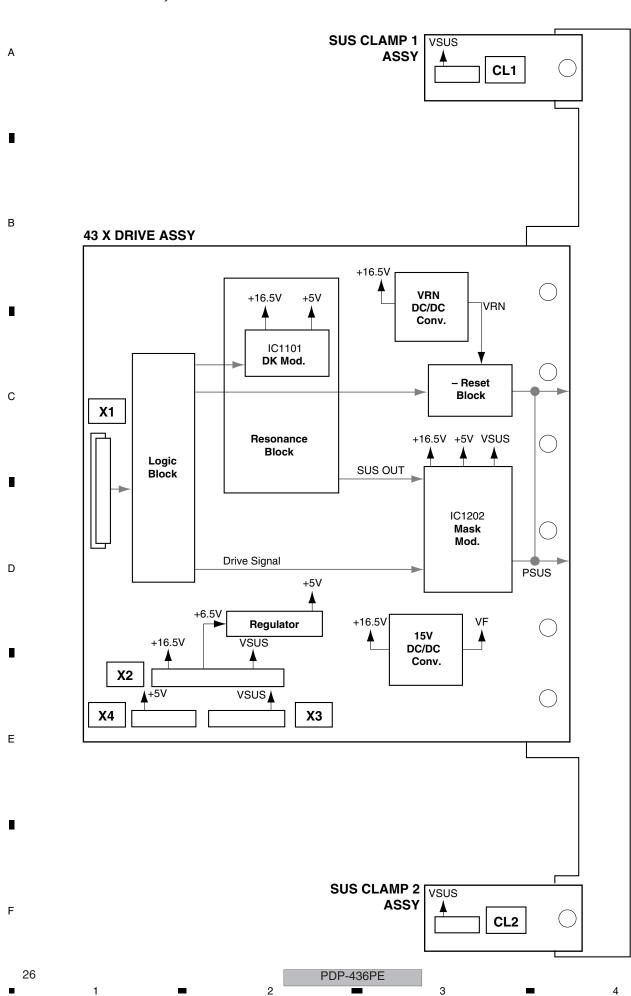
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3.4 43 SCAN A and B ASSYS



3.5 43 X DRIVE, SUS CLAMP 1 and SUS CLAMP 2 ASSYS



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D103

P3

NEUTRAL O

LIVE

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SECONDARY PRIMARY P1 Switching В Q703 T702 VSUS Q704 Switching +390V PFC Q101 +16.5V Switching +6.5V Q102 Q901 T902 Q103 **P2 P7** Q902 Switching VSUS_CONT +60V D109 IC202 С P6 T101 IC101 +16.5V Switching P5 VSUS_ADJ Switching Q501 T502 +8V D107, D108 STA3.3V Q502 PS_PD
RELAY EXT_PD Switching

RY102

D

P4

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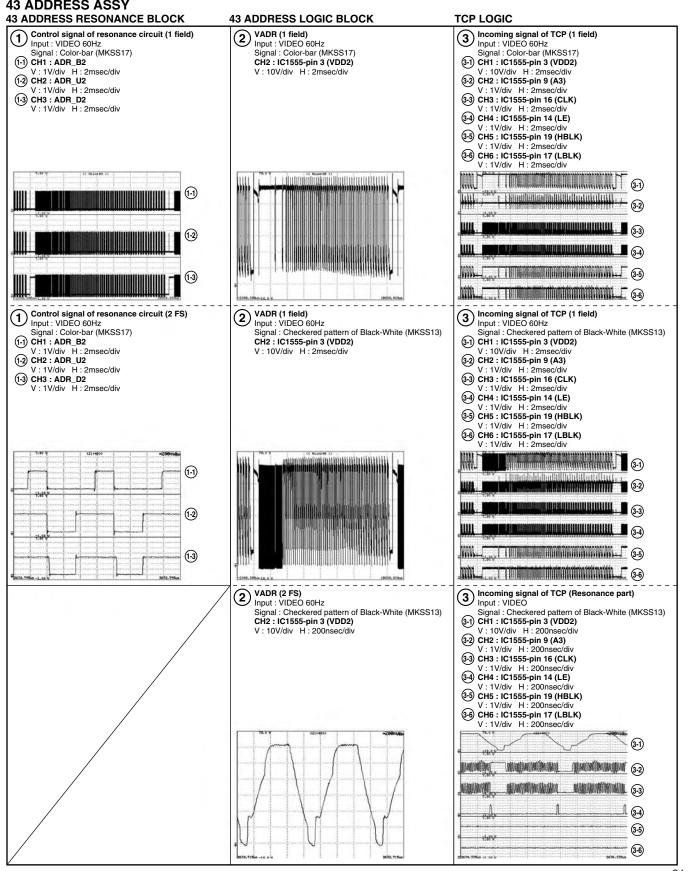
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Note: The encircled numbers denote measuring point in the schematic diagram. Refer to service manual (ARP3272).

43 ADDRESS ASSY

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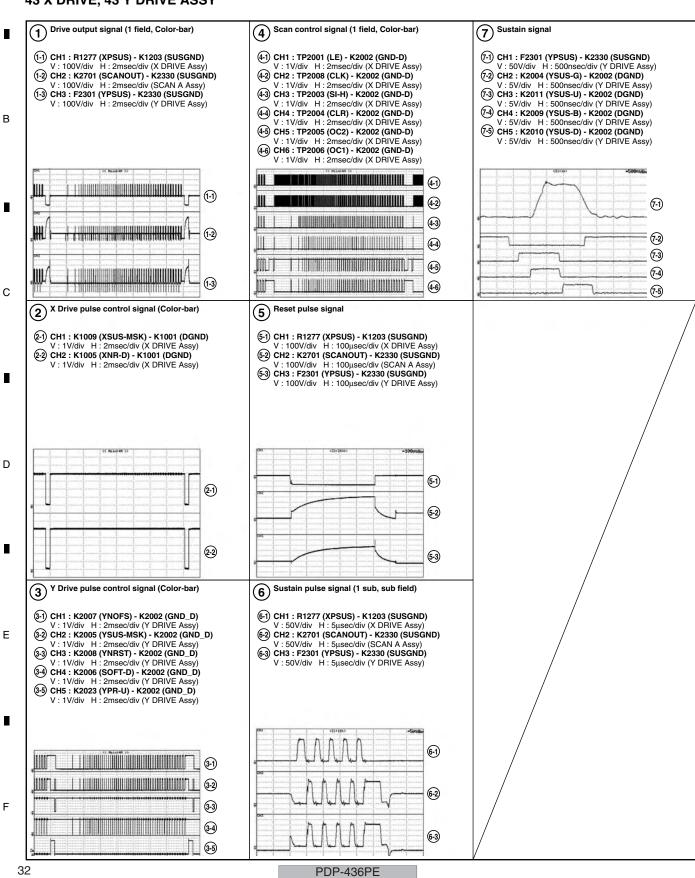
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43 X DRIVE, 43 Y DRIVE ASSY



5. PCB PARTS LIST

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NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \cdots RN1/4PC 5 6 2 1 F$

| MarkNo. Description LIST OF ASSEMBLIES | Part No. | Mark No. Description [43 ADR RESONANCE BLOCK] | Part No. |
|--|--|---|--|
| NSP 1PANEL CHASSIS (436) ASSY NSP 243 ADDRESS ASSY NSP 243 SCAN ASSY NSP 343 SCAN A ASSY NSP 343 SCAN B ASSY | AWU1145 AWV2204 AWV2207 AWW1018 AWW1019 | SEMICONDUCTORS IC1601,IC1602 Q1612 Q1607,Q1609 Q1601,Q1610 Q1606,Q1608,Q1611 | TND307TD 2SA1163 HAT1110R HAT3021R QSZ2 |
| NSP 143 X DRIVE ASSY 243 X DRIVE ASSY 2SUS CLAMP 1 ASSY 2SUS CLAMP 2 ASSY 143 Y DRIVE ASSY | AWV2255 AWW1074 AWW1022 AWW1023 | Q1615 D1612 D1625,D1628 D1602,D1603,D1605,D1606 D1607-D1610 | RN1901 1SS302 1SS355 EC10UA20 EP05FA20 |
| NSP 1HD DIGITAL ASSY 2HD DIGITAL ASSY 2HD LED ASSY 2HD IR ASSY | AWV2202 AWW1028 AWW1029 AWW1030 | D1601,D1611,D1620,D1622 COILS AND FILTERS L1601,L1604 INDUCTOR | UDZS15(B) ATH1135 |
| 1HD AUDIO ASSY 1POWER SUPPLY UNIT | AWV2203 AXY1112 | CAPACITORS C1609 (0.1U/100V) C1620,C1621 (330P/100V) C1601,C1614 (0.1U/100V) C1602,C1604 (56U/80V) C1613 | ACG1098 ACG1105 ACG1124 ACH1422 CKSRYB104K25 |
| | | C1619 | CKSYB105K16 |
| Mark No. Description 43 ADDRESS ASSY [43 ADR LOGIC BLOCK] SEMICONDUCTORS IC1501 | PEE002A | RESISTORS R1601,R1617 Other Resistors Other Resistors | RS1/16S4702F RS1/16S###J RS1/16SS###J |
| CAPACITORS C1501,C1502 C1509,C1510 | QTL1013 CKSRYB105K6R3 CKSSYB102K50 | 43 SCAN A ASSY SEMICONDUCTORS IC2701-IC2706 IC2707 D2701-D2705 | SN755870PZT TC7SH08FUS1 1SS355 |
| RESISTORS R1505-R1509 R1530,R1531 | CKSSYF104Z16 RS1/16SS1000F RS1/16S0R0J RS1/16SS###J | CAPACITORS C2701,C2711,C2721 (0.1U/250V) C2731,C2741,C2751 (0.1U/250V) C2710,C2720,C2730,C2740,C2750 C2760 C2708,C2709,C2718,C2719 | ACG1088 ACG1088 CCSRCH181J50 CCSRCH181J50 CCSRCH331J50 |
| | AKM1217 AKM1290 | C2728,C2729,C2738,C2739 C2748,C2749,C2758,C2759 C2705-C2707,C2715-C2717 C2725-C2727,C2735-C2737 C2745-C2747,C2755-C2757 | CCSRCH331J50 CCSRCH331J50 CCSRCH390J50 CCSRCH390J50 CCSRCH390J50 |

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|---|--|--------|--------------------------------|--------------------|----------------------------|
| Mark No. Description | Part No. | | Mark No. | Description | Part No. |
| C2703,C2713,C2723,C2733,C2743 | CKSRYB105K6R3 | | OTHERS | | <u> </u> |
| C2753,C2761 | CKSRYB105K6R3 | | | FFC CONNECTOR | VKN1310 |
| 02.00,02.0. | 0.10.1.2.00.10.10 | | CIVIOUT TOP | IT C CONNECTOR | VINISIO |
| RESISTORS | | | | | |
| R2705,R2710,R2713,R2716,R2719 | RAB4C221J | | [X RESONAN | CE BLOCK] | |
| R2722 | RAB4C221J | | SEMICONDU | | |
| Other Resistors | RS1/16S###J | | IC1101 | | AXF1145 |
| OTHERO | | | IC1141 | | BA10393F |
| OTHERS CN2702 PH CONNECTOR 3P | AKM1274 | | Q1141 | | 2SC4116 |
| CN2702 PH CONNECTOR 3P CN2701 13P BRIDGE CONNECTOR | | | D1101-D1105 | | D1FL40 |
| ONE/OF TOP BRIDGE CONTINEOTOR | 744 1201 | | COILS AND F | III TEDO | |
| | | | L1101,L1102 | | ATH1155 |
| | | | L1103-L1106 | | ATH1193 |
| 43 SCAN B ASSY | | | | | |
| SEMICONDUCTORS | | | CAPACITORS | <u>S</u> | |
| IC2801-IC2806 | SN755870PZT | | C1106-C1110 | | ACE1178 |
| IC2807 | TC7SH08FUS1 | | | C1113 (0.22U/250V) | ACG1112 |
| D2801-D2805 | 1SS355 | | C1121 (470P/6 | | ACG1126 ACG1129 |
| CAPACITORS | | | C1167,C1168 (C1105 | (3300F/030V) | CCG1186 |
| C2801,C2811,C2821 (0.1U/250V) | ACG1088 | | 01103 | | 0001100 |
| C2831,C2841,C2851 (0.1U/250V) | ACG1088 | | C1141,C1142,0 | C1144,C1145 | CKSRYB104K16 |
| C2810,C2820,C2830,C2840,C2850 | CCSRCH181J50 | | C1102,C1146 | | CKSRYB105K6R3 |
| C2860 | CCSRCH181J50 | | C1103 | | CKSYB105K25 |
| C2808,C2809,C2818,C2819 | CCSRCH331J50 | | DEGISTORS | | |
| C0000 C0000 C0000 C0000 | 00000011004150 | | RESISTORS | | AON14400 |
| C2828,C2829,C2838,C2839 C2848,C2849,C2858,C2859 | CCSRCH331J50 CCSRCH331J50 | | R1101 R1142,R1146 | | ACN1168 RS1/10S1003F |
| C2805-C2807,C2815-C2817 | CCSRCH390J50 | | R1122,R1123 | | RS1/10S1003I |
| C2825-C2827,C2835-C2837 | CCSRCH390J50 | | R1148,R1150 | | RS1/16S5601F |
| C2845-C2847,C2855-C2857 | CCSRCH390J50 | | R1151,R1155 | | RS1/16S6801F |
| | 01/07//7/07/07/07/07/07/07/07/07/07/07/07/ | | 5 | | D001#454004 |
| C2803,C2813,C2823,C2833,C2843 | CKSRYB105K6R3 CKSRYB105K6R3 | | R1106,R1121 Other Resistors | | RS2MMF100J |
| C2853,C2861 | CKSHYBIUSKoH3 | | Other Resistors | 5 | RS1/16S###J |
| RESISTORS | | | | | |
| R2803,R2808,R2811,R2814,R2817 | RAB4C221J | | [X SUS BLOC | K] | |
| R2820 | RAB4C221J | | SEMICONDU | CTORS | |
| Other Resistors | RS1/16S###J | | IC1202 | | AXF1143 |
| OTHERS | | | IC1201 | | MM1565AF |
| OTHERS | A IZN 44 0.7.4 | | IC1252 IC1251 | | PS9117 |
| CN2802 PH CONNECTOR 3P CN2801 13P BRIDGE CONNECTOR | AKM1274 AKP1261 | | IC1251 IC1271 | | TND301S TND307TD |
| ONZOOT TO BRIDGE CONNECTOR | ART 1201 | | 101271 | | 114000710 |
| | | | Q1251 | | 2SC2412K |
| | | | Q1272 | | 2SK3325-Z |
| 43 X DRIVE ASSY | | | D1281 | | 1SS302 |
| <u>OTHERS</u> | | | D1201 D1252 | | 1SS355 CRH01 |
| 1002 DRIVE RADIATION SHEET | AEH1092 | | ם ובטב | | OFFICE |
| 1001 DRIVE HEATSINK X | ANH1637 | | D1282 | | UDZS16(B) |
| 1002 DRIVE HEATSINK K | ANH1639 | | D1251 | | UDZS5R6(B) |
| 1001 SCREW | BMZ30P080FTC | | | | |
| | | | COIL C AND I | III TEDO | |
| [X LOGIC BLOCK] | | | COILS AND F | | Λ Τ ∐1106 |
| SEMICONDUCTORS | | | L1204,L1211 F1201 INDUC | | ATH1186 CTF1449 |
| IC1001 | TC74ACT541FT | | L1201,L1205,L | | LFEA100J |
| IC1002 | TC74VHC00FTS1 | | - ,,- | | |
| O A DA OLTO DO | | | CAPACITORS | <u> </u> | |
| <u>CAPACITORS</u> | OFILIAT (TOTAL) | | C1214-C1217 | | ACE1178 |
| C1003 | CEHAT470M16 CKSRYB104K16 | | C1297,C1298 (| (3300P/630V) | ACG1129 |
| C1001,C1002 | UNON10104N10 | | C1212,C1213 C1231 | | ACH1424 |
| RESISTORS | | | C1231 C1206 | | CEHAT101M10 CEHAT101M25 |
| R1001,R1003 | RAB4C470J | | 31200 | | OLI II II II IIIIZU |
| R1008,R1009 | RAB4C472J | | | | |
| Other Resistors | RS1/16S###J | | | | |
| | _ | | | | |
| 34 | РГ | P-436P | E | | |

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|---|--------------------|--------------------|---|-------------------------------|--|
| lark No. | Description | Part No. | Mark No. Description | Part No. | |
| C1283 | | CEHAT2R2M2E | • | | |
| C1208 | | CEHAT470M16 | SUS CLAMP 2 ASSY | | |
| C1222,C1272 | | | <u>SEMICONDUCTORS</u> | | |
| C1222,C1272 | | CEHAT470M25 | D1641 | DF20L60U | |
| | 24000 04054 04050 | CKSRYB105K6R3 | | | |
| C1204,C1207,C | C1223,C1251,C1253 | CKSRYF104Z50 | CAPACITORS | | |
| | | | · · · · · · · · · · · · · · · · · · · | ACE1170 | |
| C1273 | | CKSRYF104Z50 | C1642 | ACE1179 | |
| C1220 | | CKSYB105K25 | | | |
| | | | <u>OTHERS</u> | | |
| ESISTORS | | | KN1642 GROUND PLATE | ANK-142 | |
| R1204 | | ACN1166 | CN1641 3P TOP POST | B3B-EH | |
| R1213 | | ACN1168 | KN1641 WRAPPING TERMINAL | VNF1084 | |
| R1276,R1277 | | RS3LMF470J | | | |
| Other Resistors | • | RS1/16S###J | | | |
| Other registers | , | 1101/100###0 | | | |
| THERS | | | 43 Y DRIVE ASSY | | |
| | 00 000 1110 5: :== | A N II C 4 4 C | | | |
| | 06 GROUND PLATE | ANK-142 | <u>OTHERS</u> | | |
| | 11 GROUND PLATE | ANK-142 | 2001 DRIVE RADIATION SHEET | AEH1092 | |
| CN1202 6PT0 | | B6B-EH | 2001 CONDUCTIVE PLATEY | ANG2832 | |
| CN1201 8PT0 | OP POST | B8B-EH | 2001 DRIVE HEATSINKY | ANH1638 | |
| | | | 2002 DRIVE HEATSINK K | ANH1639 | |
| | | | 2002 SCREW | BMZ30P080FTC | |
| D-D CON B | LOCK1 | | | 22001 0001 10 | |
| EMICONDU | - | | 2001 SCREW | PMB30P060FTC | |
| | UIUNO | D0070/1 /// | ZUUT SUNEW | I IVIDOUT UUUT I U | |
| IC1321 | | PS2701A-1(L) | | | |
| IC1326 | | TA76431FR | DV I 0010 D1 0017 | | |
| Q1324 | | 2SA1037K | [Y LOGIC BLOCK] | | |
| Q1302 | | 2SC4081 | <u>SEMICONDUCTORS</u> | | |
| Q1301,Q1323 | | 2SD1898 | IC2002 | TC74ACT540FT | |
| | | | IC2001,IC2004 | TC74ACT541FT | |
| Q1321,Q1325,0 | Q1351 | HN1C01FU | IC2003,IC2005 | TC74VHC08FTS1 | |
| D1303,D1324 | | 1SS301 | 102000,102000 | 10/4/10/01/131 | |
| D1304,D1307,E | D1325.D1328 | 1SS355 | CADACITODO | | |
| D1304,D1307,E | · · | CRH01 | <u>CAPACITORS</u> | | |
| D1301,D1302,L | J 1020,D 1021 | D1FK60 | C2003 | CEHAT470M16 | |
| ואבו | | אוויעט | C2001,C2002,C2004-C2006 | CKSSYB104K10 | |
| D1329,D1330 | | UDZS4R7(B) | | | |
| | 71221 | ` ' | <u>RESISTORS</u> | | |
| D1306,D1323,D | וטטוע | UDZS5R1(B) | R2003,R2006 | RAB4C101J | |
| OII | TED2 | | R2001,R2002,R2017,R2021 | RAB4C470J | |
| OILS AND F | | | R2004,R2005,R2019,R2020 | RAB4C472J | |
| T1301 SWITC | | ATK1159 | Other Resistors | RS1/16S###J | |
| T1321 SWITC | HING TRANS. | ATK1160 | Carlor Flodiotoro | 110 1/100πππο | |
| | | | OTHERS | | |
| APACITORS | 3 | | | AL/N/4047 | |
| C1325 | | ACH1428 | CN2001 40P CONNECTOR | AKM1217 | |
| C1326 | | CEHAT100M50 | | | |
| C1302,C1321 | | CEHAT101M25 | | | |
| C1301,C1303,0 | 21323 | CKSRYB103K50 | [Y RESONANCE BLOCK] | | |
| | | | SEMICONDUCTORS | | |
| C1304,C1306,0 | J 1321 | CKSRYB104K16 | IC2101 | AXF1145 | |
| 04007 0455 | | OI(O)(D1051(05 | IC2141 | BA10393F | |
| C1307,C1324 | | CKSYB105K25 | | | |
| | | | Q2141 | 2SC4081 | |
| ESISTORS | | | D2101-D2105 | D1FL40 | |
| R1337 | | RAB4C472J | 0011 0 1115 =11 ==== | | |
| R1321,R1322,F | R1326,R1339 | RS1/10S224J | COILS AND FILTERS | | |
| VR1321 | · -, :=== | CCP1392 | L2101,L2102 CHOKE COIL | ATH1155 | |
| Other Resistors | 3 | RS1/16S###J | L2103-L2106 CHOKE COIL | ATH1193 | |
| | | | | | |
| | D 1 ACCV | | <u>CAPACITORS</u> | | |
| IIS CLARA | | | C2131-C2134,C2136 | ACE1178 | |
| | | | C2103,C2107,C2108 (0.22UF/250V | | |
| | <u>CTORS</u> | DF20L60U | C2103,C2107,C2108 (0.220F/250V C2104,C2106 (470P/630V) | ACG1112 ACG1126 | |
| | <u>CTORS</u> | DI 20L000 | , | ACG1126 ACG1129 | |
| EMICONDU | <u>CTORS</u> | DI 20L000 | | AL 1=117U | |
| EMICONDU D1631 | | DI 20L000 | C2109-C2112 (3300P/630V) | | |
| EMICONDU D1631 APACITORS | | | C2109-G2112 (3300P/630V) C2101,C2145 | CKSRYB105K6R3 | |
| EMICONDU D1631 | | ACE1179 | C2101,C2145 | CKSRYB105K6R3 | |
| EMICONDU D1631 APACITORS C1632 | | | ` , | | |
| EMICONDU D1631 APACITORS C1632 | | | C2101,C2145 | CKSRYB105K6R3 | |
| APACITORS | <u>S</u> | | C2101,C2145 C2141,C2143,C2144 | CKSRYB105K6R3 CKSSYB104K10 | |
| EMICONDUC D1631 APACITORS C1632 THERS | UND PLATE | ACE1179 | C2101,C2145 C2141,C2143,C2144 | CKSRYB105K6R3 CKSSYB104K10 | |
| EMICONDUC D1631 APACITORS C1632 THERS KN1632 GRO CN1631 3PTC | UND PLATE | ACE1179 ANK-142 | C2101,C2145 C2141,C2143,C2144 | CKSRYB105K6R3 CKSSYB104K10 | |

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| | Mark No. | Description | Part No. | Mark No. | Description | Part No. |
|---|------------------------|---------------|------------------|-------------------|-------------------|----------------|
| | RESISTORS | | | R2222,R2224 | | RS2MMF5R6J |
| | R2101 | | ACN1174 | R2203 | | RS3LMF821J |
| | R2108 | | ACN1241 | R2277-R2279,F | R2281 | RS3LMF8R2J |
| Α | R2142,R2143 | | RS1/10S1003F | Other Resistors | i | RS1/16S###J |
| | R2103,R2107 | | RS1/10S104J | | | |
| | R2146,R2149 | | RS1/16S5601F | <u>OTHERS</u> | | |
| | | | | | 2 GROUND PLATE | ANK-142 |
| | R2147,R2151 | | RS1/16S6801F | KN2354 GRO | | ANK-142 |
| | R2102 | | RS2MMF100J | | 7 GROUND PLATE | ANK-142 |
| | Other Resistors | | RS1/16S###J | | 3 GROUND PLATE | ANK-142 |
| | | | | CIN2351,CIN235 | 52 KR CONNECTOR | B4B-PH-K |
| | [Y SUS BLOCI | K 1 | | CN2350 9P TO | OP POST | B9B-EH |
| | SEMICONDUC | - | | | | |
| | IC2252,IC2253 | <u> </u> | AXF1144 | | | |
| ь | IC2350 | | MM1565AF | [Y SCAN BLO | CK] | |
| В | IC2250 | | PS9117 | SEMICONDU | CTORS | |
| | IC2231,IC2251 | | TND301S | IC2403,IC2405 | | PS9117 |
| | IC2203,IC2221 | | TND307TD | IC2401 | • | PS9851-2(P) |
| | | | | IC2409,IC2410 | | PST3638UR |
| | Q2202 | | 2SA2142 | IC2402,IC2407 | | TC74ACT540FT |
| _ | Q2250 | | 2SC4081 | D2402 | | CRH01 |
| | Q2290 | | 2SK3050 | | | |
| | Q2221 | | 2SK3325-Z | COILS AND F | <u>ILTERS</u> | |
| | Q2280,Q2281 | | 2SK3399 | F2401-F2404 | CHIP FERRITE BEAD | ATX1059 |
| | Doooo | | 100001 | L2401-L2403 | | LFEA100J |
| | D2233 | | 1SS301 | | | |
| | D2213 D2203,D2212,D | 10051 | 1SS302 1SS355 | <u>CAPACITORS</u> | <u>}</u> | |
| С | D2203,D2212,D | | CRH01 | C2404,C2411 | | ACH1406 |
| | D2251,D2252,D | · · | CRH01 | C2401,C2407,C | C2414 | CEHAT101M10 |
| | <i>DLLO1,DLLOL,D</i> | | 01.1101 | C2416,C2417 | 20405 00400 00440 | CKSRYB102K50 |
| | D2211 | | D1FK60 | | C2405,C2408-C2410 | CKSSYB104K10 |
| | D2232,D2271 | | UDZS16(B) | C2412 | | CKSSYB104K10 |
| _ | D2250 | | UDZS5R6(B) | RESISTORS | | |
| | | | | R2407,R2421 | | RAB4C220J |
| | COILS AND F | <u>ILTERS</u> | | Other Resistors | | RS1/16S###J |
| | L2353 INDUCT | | ATH1186 | Other redictors | | 1101/100////// |
| | F2301-F2320 F | | ATX1055 | OTHERS | | |
| | F2352 INDUCT | | CTF1449 | CN2401,CN240 |)2 | AKM1200 |
| _ | L2350,L2351,L2 | :354 | LFEA100J | · · | GE CONNECTOR | AKM1200 |
| D | CAPACITORS | | | | | |
| | C2330,C2335,C | | ACE1178 | | | |
| | C2231 (0.33U/1 | | ACG1118 | [Y VH D-D CO | N BLOCK] | |
| | C2271,C2272 (0 | | ACG1124 | SEMICONDU | <u>CTORS</u> | |
| | C2336,C2337 | 2.10/1001/ | ACH1424 | IC2531 | | BA10358F |
| | C2270 | | ACH1426 | IC2502 | | MIP2E3DMC |
| _ | | | | IC2503 | | PS2701A-1(L) |
| | C2226 | | ACH1427 | IC2534,IC2535 | | TA76431FR |
| | C2203-C2206 | | CCG1186 | Q2533 | | 2SC2412K |
| | C2207 | | CCSRCH102J50 | Q2531 | | 2SC3425 |
| | C2355,C2369 | | CEHAT101M10 | Q2532 | | 2SD2568 |
| Ε | C2357 | | CEHAT470M16 | Q2511 | | HN1C01FU |
| | C2208,C2221,C | 2220 C2264 | CEHAT470M25 | D2534 | | 1SS355 |
| | C2356 | 2003,02004 | CKSRYB104K16 | D2522,D2524 | | CRH01 |
| | C2353,C2358,C | 2359 | CKSRYB105K6R3 | , | | |
| | C2363 | 2000 | CKSRYB473K16 | D2523,D2532 | | D1FK60 |
| | C2209,C2222,C | 2230,C2252 | CKSRYF104Z50 | D2533 | | UDZS33(B) |
| | | | | D2536 | | UDZS4R7(B) |
| | C2250 | | CKSSYB104K10 | D2530,D2531 | | UDZS8R2(B) |
| | C2354,C2360 | | CKSYB105K25 | | | |
| | | | | COILS AND F | | |
| | RESISTORS | | | ⚠T2503 CONVE | ERTER TRANS. | ATK1158 |
| | R2352 | | ACN1166 | L2501 | | LFEA101J |
| F | R2304 | | ACN1174 | | | |
| | R2360,R2362 | | ACN1178 | | | |
| | R2210,R2211 | | RS1/10S151J | | | |
| | R2290 | | RS1MMF331J | | | |
| | 36 | | PDP-436 | PF | | |

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|--------------------------------|-----------------------------|--|------------------------------|----|
| Mark No. Description | Part No. | Mark No. Description | Part No. | |
| CAPACITORS | | RESISTORS | | |
| C2531 | ACE1177 | R2613 | RAB4C472J | |
| C2516 | ACH1360 | R2641,R2642 R2629 | RS1/10S224J | Α |
| C2532 C2513 | ACH1425 ACH1428 | R2625,R2626 | RS1/16S1002F RS1/16S1501F | ^ |
| C2520 | CEHAT101M16 | R2608,R2612,R2630,R2632,R2635 | RS1/16S4701F | |
| C2515 | CEHAT101M25 | R2618 | RS1/16S4702F | |
| C2528 | CEHAT221M16 | R2636 | RS1/16S5601F | |
| C2514,C2525,C2534 | CKSRYB104K16 | R2652 | RS1/16S6801F | |
| C2521,C2533,C2535 | CKSRYB104K25 | R2627 VR2601 | RS3LMF151J CCP1390 | _ |
| <u>RESISTORS</u> | | | | |
| R2553 | RAB4C472J | Other Resistors | RS1/16S###J | |
| R2558 | RS1/10S0R0J | | | |
| R2533,R2556 | RS1/10S104J | | | В |
| R2534,R2535,R2541 | RS1/10S2203F | HD DIGITAL ASSY | | |
| R2548 | RS1/16S1003F | | | |
| R2550 | RS1/16S1802F | [TMDS RX BLOCK] | | |
| R2549,R2557 | RS1/16S4702F | <u>SEMICONDUCTORS</u> | | |
| R2542,R2545 | RS1/16S5601F | IC3002 | BA8274F | |
| VR2503 | CCP1390 | IC3001 | SII1169CTU | ī |
| VR2531 | CCP1392 | IC3004 | SN74AHC32PW | |
| | | Q3009 | 2SC4081 DTA143EUA | |
| Other Resistors | RS1/16S###J | Q3007 | DIA 143EUA | |
| | | Q3004 | DTC124EUA | |
| [Y D-D CON BLOCK] | | Q3005 | DTC143EUA | |
| | | Q3002,Q3006,Q3008 | RN1901 | С |
| SEMICONDUCTORS | DA400505 | Q3003 | RN2901 | |
| IC2602 IC2601,IC2603,IC2606 | BA10358F PS2701A-1(L) | D3001,D3002 | 1SS355 | |
| IC2605,IC2614 | TA76431FR | D0010 | DAGGALL | |
| Q2610 | 2SA1163 | D3012 D3007-D3011 | DA204U RB751V-40 | |
| Q2601,Q2609 | 2SA1576A | D3003 | UDZS6R8(B) | |
| Q2608 | 2SA2005 | COILS AND FILTERS | | - |
| Q2607 | 2SC2713 | F3005 CHIP SOLID INDUCTOR | QTL1011 | |
| Q2612 | 2SC4081 | L3003 CHIP SOLID INDUCTOR | QTL1011 | |
| Q2605,Q2606 | 2SD1898 | 20000 OF III COLID INDOCTOR | QTETOTO | |
| Q2603,Q2604,Q2611 | DTC143EUA | <u>CAPACITORS</u> | | D |
| Q2602,Q2613,Q2641 | HN1C01FU | C3030 | ACH1357 | _ |
| D2611 | 1SS226 | C3034,C3036,C3038,C3040,C3042 | ACH1396 | |
| D2604,D2612 | 1SS301 | C3003,C3005,C3009,C3014,C3019 C3046 | CCSRCH331J50 CCSRCH470J50 | |
| D2602,D2613-D2615 | 1SS355 | C3040 C3044,C3045 | CCSSCH101J50 | |
| D2601,D2603,D2609,D2618 | CRH01 | | | - |
| D2610 | D1FL40 | C3001,C3008,C3011,C3020,C3022 | CCSSCH820J50 | |
| D2617 | UDZS15(B) | C3025-C3027 | CCSSCH820J50 | |
| D2607,D2608 | UDZS4R7(B) | C3018,C3021,C3023,C3024 C3015-C3017,C3028,C3029 | CKSRYF105Z10 CKSSYF104Z16 | |
| D2605 | UDZS5R1(B) | C3031,C3032,C3035,C3037,C3039 | CKSSYF104Z16 | |
| D2616 | UDZS5R6(B) | | | |
| COILS AND FILTERS | | C3041,C3043 | CKSSYF104Z16 | E |
| ↑ T2602 CONVERTER TRANS. | ATK1156 | RESISTORS | | |
| ⚠ T2601 SWITCHING TRANS. | ATK1161 | R3007 | RAB4C220J | |
| CARACITORS | | R3008-R3013 | RAB4C470J | |
| CAPACITORS | OFLIATIONANOS | R3018 | RAB4C472J | |
| C2608,C2610 C2613 | CEHAT101M25 CEHAT221M25 | R3021 | RS1/16S3900F | Ī |
| C2613 C2606 | CEHAT221M25 CEHAT221M6R3 | Other Resistors | RS1/16S###J | |
| C2607 | CKSRYB102K50 | OTUEDO | | |
| C2605,C2612,C2614 | CKSRYB103K50 | OTHERS | A1/A4:0== | |
| • | | CN3003 PH CONNECTOR 6P | AKM1277 | |
| C2601,C2604,C2609 | CKSRYB104K16 | CN3004 PH CONNECTOR 12P | AKM1298 | |
| C2602,C2615 | CKSRYB105K6R3 | JA3001 DVI CONNECTOR JA3002 MDR CONNECTOR | AKP1276 AKP1277 | F |
| C2603 | CKSRYF104Z50 | JASUUZ IVIDA CUNNECTUR | ANT IZ// | • |
| C2611 | CKSSYB104K10 | | | |
| | | | | |
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|---------------------------------|------------------|-----------------------------------|----------------|
| Mark No. Description | Part No. | Mark No. Description | Part No. |
| | <u></u> | | |
| [MODULE UCOM BLOCK] | | CAPACITORS | |
| <u>SEMICONDUCTORS</u> | | C3402,C3419 (100UF/6.3V) | ACH1396 |
| IC3156 | BR24L04FJ-W | C3425,C3441 (100UF/6.3V) | ACH1396 |
| IC3151 | M30620FCPGP-U5C | C3414-C3416,C3426-C3438 | CKSRYF105Z10 |
| IC3157 | M62334FP | C3403-C3410,C3412,C3413 | CKSSYF104Z16 |
| IC3158 | MM1522XU | C3417,C3418,C3420-C3424 | CKSSYF104Z16 |
| IC3155 | SN74AHC08PW | | |
| | | C3439,C3440,C3442-C3449 | CKSSYF104Z16 |
| IC3152,IC3153 | SN74AHC541PW | | |
| IC3160 | TC74VHC123AFTS1 | <u>RESISTORS</u> | |
| IC3159 | TC7W126FU | R3402,R3412 | RAB4C101J |
| Q3151 | 2SJ461A | R3405-R3407,R3409,R3410 | RAB4C220J |
| D3156,D3159,D3161-D3163 | 1SS355 | R3416,R3417 | RAB4C220J |
| 20100,20100,20101 20100 | 100000 | R3425 | RS1/16S5601F |
| D3151,D3152,D3154,D3155,D3158 | DAN202U | Other Resistors | RS1/16S###J |
| D0101,D0102,D0104,D0100,D0100 | D/ (142020 | Curor redictors | 1101/100111110 |
| CAPACITORS | | | |
| • | AOLI4057 | [ADDRESS BLOCK] | |
| C3151 | ACH1357 | | |
| C3164 | CCSSCH101J50 | <u>SEMICONDUCTORS</u> | |
| C3171,C3172,C3180 | CKSRYB105K6R3 | D3501,D3502 | DAN202U |
| C3154 | CKSSYB102K50 | | |
| C3152,C3153,C3155-C3158 | CKSSYF104Z16 | <u>CAPACITORS</u> | |
| 00100 00100 00100 | | C3501-C3504 | CKSSYB102K50 |
| C3160-C3163,C3165,C3166,C3170 | CKSSYF104Z16 | | |
| | | RESISTORS | |
| RESISTORS | | R3521,R3522,R3525 | RAB4C101J |
| R3160,R3171,R3176 | RAB4C101J | R3524 | RAB4C222J |
| R3174 | RAB4C103J | | |
| Other Resistors | RS1/16S###J | R3519,R3520 | RAB4C472J |
| | | Other Resistors | RS1/16S###J |
| OTHERS | | 071170 | |
| ⚠X3151 CERAMIC RESONATOR | ASS1178 | <u>OTHERS</u> | |
| EX3131 CENAMIC RESONATOR | A331176 | CN3501-CN3504 40P CONNECTOR | |
| | | CN3506 40P CONNECTOR | AKM1217 |
| IDANIEL EL AGUEDI GOIGI | | CN3505 18P FFC CONNECTOR | VKN1310 |
| [PANEL FLASH BLOCK] | | | |
| <u>SEMICONDUCTORS</u> | | | |
| IC3301 | MBM29PL160TD75TN | [DIGITAL DD CON BLOCK] | |
| IC3304 | PST3610UR | CAPACITORS | |
| IC3302,IC3305 | PST3628UR | | OKCOVE104710 |
| IC3303 | SN74AHC08PW | C3609 | CKSSYF104Z16 |
| Q3302 | HN1C01FU | DEGICTORO | |
| | | <u>RESISTORS</u> | |
| Q3301 | RN1901 | R3611 | RAB4C101J |
| 4000. | | Other Resistors | RS1/16S###J |
| CAPACITORS | | | |
| C3311 | CCSBCH470 I50 | | |
| | CCSRCH470J50 | | |
| C3317 | CCSRCH471J50 | HD LED ASSY | |
| C3304,C3307,C3309 | CKSRYB472K50 | SEMICONDUCTORS | |
| C3305,C3310 | CKSSYB102K50 | | CMI 044LIT |
| C3315 | CKSSYB104K10 | D1671 | SML-311UT |
| 00004 00000 00000 00000 00045 | OKOOVE104740 | D1672 | SML512BC4T |
| C3301-C3303,C3306,C3308,C3316 | CKSSYF104Z16 | 0011 0 4115 | |
| DEGICTORS | | COILS AND FILTERS | |
| <u>RESISTORS</u> | | ♠ F1671-F1673 CHIP SOLID INDUCTOR | R QTL1011 |
| All Resistors | RS1/16S###J | | |
| | | | |
| <u>OTHERS</u> | | | |
| ∴X3302 CRYSTAL OSCILLATOR | ASS1188 | HD IR ASSY | |
| | | | |
| | | <u>SEMICONDUCTORS</u> | 0004440 |
| [SQ ASIC BLOCK] | | Q1681 | 2SC4116 |
| | | D1681 | DA204U |
| SEMICONDUCTORS | | | |
| IC3401 | PEG122C | <u>CAPACITORS</u> | |
| | | C1681 | CEVW470M6R3 |
| COILS AND FILTERS | | C1682 | CKSRYB103K50 |
| F3401,F3402 EMI FILTER | CCG1162 | C1683 | CKSSYB102K50 |
| L3401-L3403 CHIP SOLID INDUCTOR | | C1684 | CKSSYF104Z16 |
| | | | 3.122 |
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| Mark No. | Descrip | <u>otion</u> | Part No. | Mark No. | | Descripti | <u>ion</u> | Part No. |
| RESISTOR | <u>S</u> | | | [STTERM | | _ | | |
| All Resistors | 3 | | RS1/16S###J | COILS AN | | | | |
| OTHERS | | | | ⚠ L3901,L39 | 902 LIN | IE FILTER | | ATF1206 |
| | P L TYPE PLUG | | KM200NA3L | CAPACIT | ORS | | | |
| V1681 REI | MOTE RECEIVE | RUNIT | RPM7240-H4 | ⚠ C3906,C3 | 908,C3 | 914,C3916 | | CCSRCH101J50 |
| | | | | C3903,C3 C3904,C3 | | | | CKSRYB332K50 CKSRYF473Z50 |
| | | | | 03904,03 | 912 | | | ORSH11 473230 |
| HD AUDIO | O ASSY | | | RESISTO | | | | |
| OTHERS | | _ | ADV0100 | R3901-R3 | 3904 | | | RD1/2MMF100J |
| J3901 IP I | BOARD IN WIRE | = | ADX3123 | OTHERS | | | | |
| | | | | JA3901 S | SPEAKE | ER TERMINA | AL | AKE1061 |
| [AUDIO AM | | | | | | | | |
| SEMICONE IC3754 | JUC TURS | | BR24L02FJ-W | | | | | |
| IC3751 | | | LA4625 | POWER | | _ | | |
| IC3752 IC3753 | | | NJM7809FA NJW1183L | POWER SUF | PPLY Ur | nit has no ser | vice part. | |
| | 54,Q3755,Q3757 | 7 | 2SA1576A | | | | | |
| 02756 027 | 50 | | 2SC4081 | | | | | |
| Q3756,Q37 Q3758,Q37 | | | DTC124EUA | | | | | |
| | | | | | | | | |
| CAPACITO C3797 C380 | <u>HS</u> 08,C3812,C3814 | L | CEAT1R0M50 | | | | | |
| | 77,C3788,C3790 | | CEHAT100M50 | | | | | |
| C3799 | 04 00700 00700 | , | CEHAT100M50 | | | | | |
| | 64,C3786,C3798 80,C3783-C3785 | | CEHAT101M16 CEHAT1R0M50 | | | | | |
| | , | | 051147000450 | | | | | |
| C3762 C3752.C37 | 53,C3819,C3820 |) | CEHAT220M50 CEHAT2R2M50 | | | | | |
| C3759 | 30,000.0,000_0 | | CEHAT331M16 | | | | | |
| C3757 | | | CEHAT471M25 | | | | | |
| C3755 | | | CEHAT472M25 | | | | | |
| C3763 | | | CEHATR47M50 | | | | | |
| C3754,C380 | 05 70,C3772-C3774 | 1 | CFTLA103J50 CFTLA104J50 | | | | | |
| | 82,C3789,C3792 | | CFTLA104J50 | | | | | |
| C3806,C380 | 07,C3813 | | CFTLA104J50 | | | | | |
| C3778 | | | CFTLA334J50 | | | | | |
| C3758,C376 | • | | CKSRYB103K50 | | | | | |
| C3769,C38 ⁻ C3810 | 15 | | CKSRYB222K50 CKSRYB223K50 | | | | | |
| C3779 | | | CKSRYB822K50 | | | | | |
| C3816 | | | CKSRYF104Z16 | | | | | |
| | | | JAJIII 104210 | | | | | |
| RESISTOR | | | DD4/61415555 | | | | | |
| R3768-R37 R3752 | 70,H3782 | | RD1/2MMF2R2J RD1/2MMF4R7J | | | | | |
| Other Resis | tors | | RS1/16S###J | | | | | |
| OTHERS | | | | | | | | |
| | 2P PH CONNEC | TOR | AKM1335 | | | | | |
| | IO HEATSINK | | ANH1636 | | | | | |
| CN3751 3F 3772-3775 | P TOP POST (VI SCREW | ⊣) | B3P-VH VBB30P100FNI | | | | | |
| | RAPPING TERM | ЛINAL | VNF1084 | | | | | |
| KN12752 W | IDADDINIC TEDA | AINIAI | VNE1094 | | | | | |
| NN3/52 W | RAPPING TERN | VIIINAL | VNF1084 | | | | | |
| | | | | | | | | |
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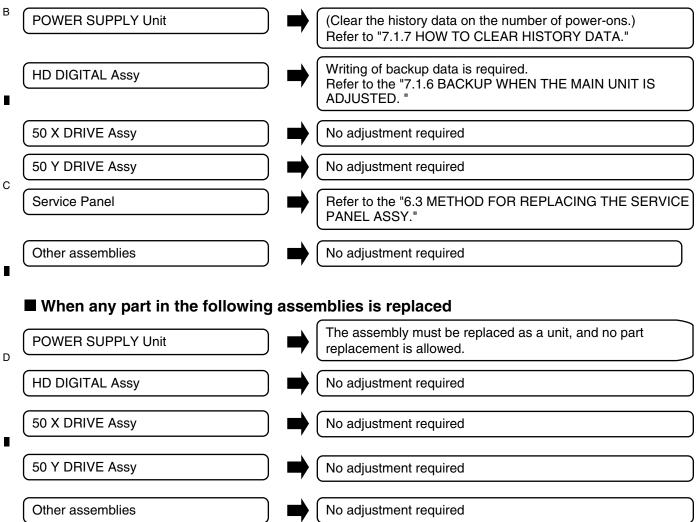
6. ADJUSTMENT



- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced



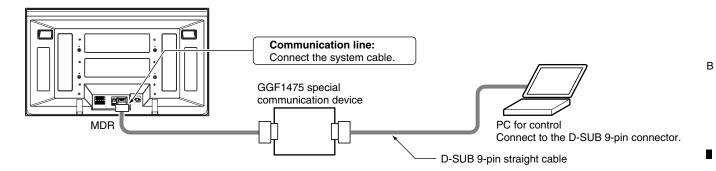
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• The panel control items for the PDP-506PE, PU / PDP-436PE, PU systems can be controlled with the RS-232C commands by connecting a PC through the GGF1475 special communication device when the Media Receiver is not connected with the PDP.

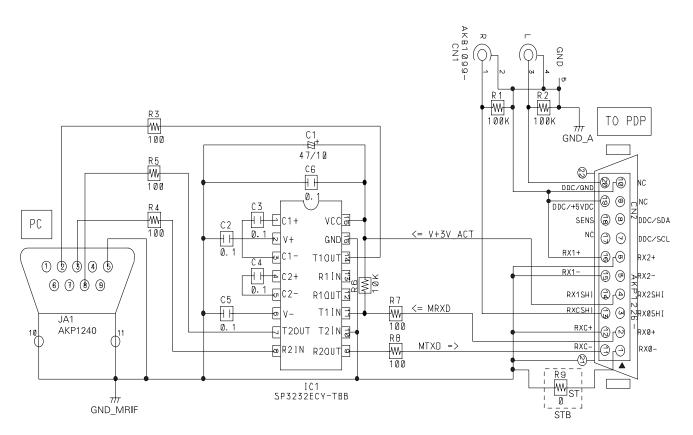
Note: The special communication device for the PDP-503P cannot be used with this unit, because the control lines within the MDR cable are different.

1. Connection

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• Schematic diagram of the special communication device



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2. Command format

■ Communication protocol

Start bit : 1bit
Data : 8bit
Parity : 0 (none)
Stop bit : 1bit
Baud rate : 38400bps

■ Start and stop conditions

STX (start condition): 0x02 ETX (stop condition): 0x03

■ ID setting

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No ID setting (corresponding to all ASCII codes)

■ Acknowledgement (ACK)

- Acknowledgement (ACK) will be sent back when the unit returns to Standby mode for the next command after the process of the received command is finished.
- The return data will be a received command in capital letters, but without an ID.

Example of communication: For a command listed on the command list

MR / External PC

| STX | ID | Command | ETX |
|------|----|---------|------|
| 0x02 | ** | CBU | 0x03 |



| STX | Command | ETX |
|------|---------|------|
| 0x02 | CBU | 0x03 |

Returns from the PDP

• If a received command is not one listed on the command list, "ERR" (3 characters) will be sent back.

Example of communication: For a command that is not listed on the command list

MR / External PC

| STX | ID | Command | ETX |
|------|----|---------|------|
| 0x02 | ** | AAA | 0x03 |



| STX | Command | ETX |
|------|---------|------|
| 0x02 | ERR | 0x03 |

Returns from the PDP

• If the operation of a received command is not possible in a certain status, "XXX" (3 characters) will be sent back.

Example of communication: If an adjustment command that gives an adjustment value out of the adjustable range is sent

MR / External PC

| STX | ID | Adjustment Command | Adjustment Value | ЕТХ |
|------|----|-----------------------|---------------------|------|
| 0x02 | ** | VOL | 128 | 0x03 |



| STX | Command | ETX |
|------|---------|------|
| 0x02 | XXX | 0x03 |

Returns from the PDP

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■ Error process

If an error is generated between STX and ETX, a return signal will not be issued.

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PDP-436PE

3. Definition of various commands

■ Simple-function command

A simple-function command orders an operation that will conclude by itself, and it consists of 3 characters.

Example of communication:

MR / External PC

| STX | ID | Command | ETX |
|------|----|---------|------|
| 0x02 | ** | CPD | 0x03 |



Returns from the PDP

| STX | Command | ETX |
|------|---------|------|
| 0x02 | CPD | 0x03 |

■ Adjustment command and adjustment value

An adjustment command is accompanied by an adjustment value and orders a change in the adjustment value, such as for the contrast adjustment.

- Adjustment command + adjustment value => The attached parameter will be the adjustment value.
- The adjustment value to be attached to an adjustment command consists of 3 characters in decimal, in the range of 000 to 999.

Example of communication:

MR / External PC

| STX | ID | Adjustment Command | Adjustment Value | ETX |
|------|----|-----------------------|---------------------|------|
| 0x02 | ** | CNT | 128 | 0x03 |



| STX | Adjustment Command | Adjustment Value | ЕТХ |
|------|-----------------------|---------------------|------|
| 0x02 | CNT | 128 | 0x03 |

Returns from the PDP

- If the adjustment value of the received command is out of the adjustable range, "XXX" will be sent back, and the adjustment value will not be changed.
- If the adjustment value of the received command is the same as the current adjustment value, the adjustment value will be overwritten, and "XXX" will not be sent back.

■ Setup command and setup value

A setup command is accompanied by a setup value and orders a change in the setup value, such as for the mask setup.

- Setup command + setup value => The attached parameter will be the setup value.
- The setup value to be attached to a setup command consists of 3 characters in decimal, in the range of S00 to S99.

Example of communication:

MR / External PC

| STX | ID | Adjustment Command | Adjustment Value | ETX |
|------|----|-----------------------|---------------------|------|
| 0x02 | ** | MKS | S02 | 0x03 |



Returns from the PDP

| STX | Adjustment Command | Adjustment Value | ETX | |
|------|--------------------|---------------------|------|--|
| 0x02 | MKS | S02 | 0x03 | |

- If the setup value of the received command is out of the range, "XXX" will be sent back, and the setup value will not be changed.
- If the setup value of the received command is the same as the current setup value, the setup value will be overwritten, and "XXX" will not be sent back.

■ QUEST (acquiring status) command

If a QUEST command is received from the main unit's microcomputer, data for various adjustment values will be read from memory and sent back. The return data consist of the received command as an echo back, return data, and a checksum.

- Return data: A string of characters defined for each QUEST command is converted into ASCII codes and transmitted.
- The configuration and the data length of return data are defined for individual QUEST commands.

Example of communication:

MR / External PC

ID

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STX

0x02



Returns from the PDP

| STX | QST Command | Return Data | Checksum | ЕТХ |
|------|----------------|-------------|----------|------|
| 0x02 | QS1 | 54AHM2** | 7B | 0x03 |

• Checksum (CS): A checksum is used for judging if any error exists in the data sent back from the panel. If an error is detected, it is possible to resend the QUEST command from the MR / External PC to try to acquire data again.

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QST

Command

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ETX

0x03

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4. RS-232C command for module microcomputer

| | mand me | | Function | Effective only in Factory mode | Remarks |
|-----------------|------------|----------------------|---|-----------------------------------|--|
| Α | | | | | |
| ABL | *** | ABL ADJUSTMENT | Adjusting the upper limit of the power | 0 | |
| AMT | S00 | AUDIO MUTE OFF | Turning off the audio muting | | |
| | S01 | AUDIO MUTE ON | Turning on the audio muting | | |
| APW | S00 | APL WB FUNCTION:OFF | WB correction interlocked with APL: OFF | 0 | |
| | S01 | APL WB FUNCTION:ON | WB correction interlocked with APL: ON | 0 | |
| В | | | | | |
| BAL | *** | BALANCE ADJUSTMENT | Audio balance adjustment | | |
| BAS | *** | BASS ADJUSTMENT | Audio bass adjustment | | |
| ВСР | | BACKUP COPY | Copying the backup data in the EEPROM | 0 | |
| С | | | copying the sacrap data in the EE. Hell | | |
| CBU | | CLEAR BACKUP | Clearing backup data | 0 | |
| СНМ | | CLEAR HOUR METER | Clearing data of the hour meter | 0 | Used only when the panel is replace |
| CPC | | CLEAR POWER ON COUNT | | 0 | |
| CPD | | CLEAR POWER DOWN | Clearing power-on count data | | Used only when the power unit is replace. Used only when the panel is replace. |
| | | | Clearing power-down information | 0 | , , , |
| CPM | | CLEAR PLUSE METER | Clearing data of the pulse meter | 0 | Used only when the panel is replace |
| CSD | | CLEAR SHUT DOWN | Clearing shutdown information | 0 | Used only when the panel is replace |
| D DRV | | DD11/F 0.FF | | | |
| אחט | S00 | DRIVE OFF | Main power off | | |
| | S01 | DRIVE ON | Main power on | | |
| E | | | | | |
| ESV | S00 | POWER CONTROL NORMAL | Setting Power Consumption mode to 4-split normal curve | | |
| | S01 | POWER CONTROL MODE1 | Setting Power Consumption mode to 2-split normal curve | | |
| | S02 | POWER CONTROL MODE2 | Setting Power Consumption mode to 2-split power-saving curve | | |
| | S10 | POWER CONTROL NORMAL | Setting Power Consumption mode to 4-split normal curve (domestic) | | |
| | S11 | POWER CONTROL MODE1 | Setting Power Consumption mode to 2-split normal curve (domestic) | | |
| | S12 | POWER CONTROL MODE2 | Setting Power Consumption mode to 2-split power-saving curve (domestic) | | |
| F | | | | | |
| FAJ | | FINISH ADJUSTMENT | Determining the flag of the HD DIGITAL Assy adjustment in "adjustment is completed" | 0 | |
| FAN | | FACTRY NO | | 0 | |
| FAY | | FACTRY YES | Entering Factory mode | | Turning the mask setting of |
| FCS | S00 | FOCUS OFF | Turning the FOCUS function off | | |
| | S01 | FOCUS ON | Turning the FOCUS function on | | |
| М | | | | | |
| MKC | S00 | MASK COMBINATION OFF | MASK off | | |
| | S01 | MASK COMBINATION 01 | H ramp (slant 1) M | 0 | |
| | S02 | MASK COMBINATION 02 | H ramp (slant 4) M | 0 | |
| | S03 | MASK COMBINATION 03 | Slanting ramp M | 0 | |
| | S04 | MASK COMBINATION 04 | 30 for aging | 0 | |
| | S05 | MASK COMBINATION 05 | 05 for aging | 0 | |
| } | S06 | MASK COMBINATION 06 | Erasing afterimage 1 | 0 | |
| ŀ | S07 | MASK COMBINATION 07 | Erasing afterimage 2 (RGB: zigzag, V: reverse) | 0 | |
| ŀ | S08 | MASK COMBINATION 08 | White (change in luminance level) | 0 | |
| ŀ | S09 | MASK COMBINATION 09 | PEAK SEEK RASTER | 0 | |
| MKS | S00 | MASK SINGLE OFF | MASK OFF | | |
| - | S01 | MASK SINGLE OFF | | 0 | |
| } | | | H ramp (slant 1) | | |
| - | S02 | MASK SINGLE 2 | H ramp (slant 4) | 0 | |
| - | S03 | MASK SINGLE 3 | V ramp (slant 1) | 0 | |
| | S04 | MASK SINGLE 4 | Slanting ramp | 0 | |

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| | MASK SINGLI | E 6 | Window(Hi=870Lo=102) Window(Hi=1023Lo=102) Window(Hi=1023) Window(Hi=1023)4% Window(Hi=1023)1.25% Window(1/TLINE) STRIPE(MGT/GRN) STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines Red & black, checker (1 line) | | |
|--|---|---|---|----------------------------|---|
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | MASK SINGLE | E 7 E 8 E 9 E 10 E 11 E 12 E 13 E 14 E 15 E 16 E 17 E 18 E 19 E 20 | Window(Hi=1023) Window(Hi=1023)4% Window(Hi=1023)1.25% Window(1/7LINE) STRIPE(MGT/GRN) STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | | |
| \$ | MASK SINGLE | E 8 E 9 E 10 E 11 E 12 E 13 E 14 E 15 E 16 E 17 E 18 E 19 E 20 | Window(Hi=1023)4% Window(Hi=1023)1.25% Window(1/7LINE) STRIPE(MGT/GRN) STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | | |
| \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ | MASK SINGLE | E 9 E 10 E 11 E 12 E 13 E 14 E 15 E 16 E 17 E 18 E 19 E 20 | Window(Hi=1023)1.25% Window(1/7LINE) STRIPE(MGT/GRN) STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | | |
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | S10 MASK SINGLE S11 MASK SINGLE S12 MASK SINGLE S13 MASK SINGLE S14 MASK SINGLE S15 MASK SINGLE S16 MASK SINGLE S17 MASK SINGLE S18 MASK SINGLE S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 10 E 11 E 12 E 13 E 14 E 15 E 16 E 17 E 18 E 19 E 20 | Window(1/7LINE) STRIPE(MGT/GRN) STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | | |
| | S11 MASK SINGLE S12 MASK SINGLE S13 MASK SINGLE S14 MASK SINGLE S15 MASK SINGLE S16 MASK SINGLE S17 MASK SINGLE S18 MASK SINGLE S18 MASK SINGLE S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 11 E 12 E 13 E 14 E 15 E 16 E 17 E 18 E 19 E 20 | STRIPE(MGT/GRN) STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | 0 0 0 0 0 0 | |
| | MASK SINGLE | E 12 E 13 E 14 E 15 E 16 E 17 E 18 E 19 E 20 | STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | 0 0 0 0 0 | |
| \$ \$ \$ \$ \$ | S13 MASK SINGLE S14 MASK SINGLE S15 MASK SINGLE S16 MASK SINGLE S17 MASK SINGLE S18 MASK SINGLE S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 12 E 13 E 14 E 15 E 16 E 17 E 18 E 19 E 20 | STRIPE(GRN/MGT) B & W, checker (1 line) B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | 0 0 0 0 0 | |
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | S14 MASK SINGLI S15 MASK SINGLI S16 MASK SINGLI S17 MASK SINGLI S18 MASK SINGLI S19 MASK SINGLI S20 MASK SINGLI S21 MASK SINGLI S22 MASK SINGLI | E 14 E 15 E 16 E 17 E 18 E 19 E 20 | B & W, checker (2 lines) B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | 0 0 0 | |
| \$ \$ \$ \$ | S15 MASK SINGLE S16 MASK SINGLE S17 MASK SINGLE S18 MASK SINGLE S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 15 E 16 E 17 E 18 E 19 E 20 | B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | 0 0 0 | |
| \$ \$ \$ | S16 MASK SINGLE S17 MASK SINGLE S18 MASK SINGLE S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 15 E 16 E 17 E 18 E 19 E 20 | B & W, checker (4 lines) B & W, checker (8 lines) COLOR BAR Slanting lines | 0 0 | |
| \$ \$ \$ | S16 MASK SINGLE S17 MASK SINGLE S18 MASK SINGLE S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 16 E 17 E 18 E 19 E 20 | B & W, checker (8 lines) COLOR BAR Slanting lines | 0 0 | |
| S | S17 MASK SINGLI S18 MASK SINGLI S19 MASK SINGLI S20 MASK SINGLI S21 MASK SINGLI S22 MASK SINGLI | E 17 E 18 E 19 E 20 | COLOR BAR Slanting lines | 0 | _ |
| S | S18 MASK SINGLE S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 18 E 19 E 20 | Slanting lines | 0 | |
| S | S19 MASK SINGLE S20 MASK SINGLE S21 MASK SINGLE S22 MASK SINGLE | E 19 | | | |
| S | S20 MASK SINGLI S21 MASK SINGLI S22 MASK SINGLI | = 20 | neu & black, checker (1 line) | | |
| - | S21 MASK SINGLE S22 MASK SINGLE | | Pod & black obooker (2 lines) | 0 | |
| 5 | S22 MASK SINGLI | _ < 1 | Red & black, checker (2 lines) | 0 | |
| 1 0 | | | Red & black, checker (4 ines) | | |
| | S23 MASK SINGLI | | Red & black, checker (8 lines) | 0 | |
| | | | RGB zigzag, V reverse | 0 | |
| _ | S24 MASK SINGLE | | SUS 2000 pulses (black raster) | 0 | |
| | S25 MASK SINGLE | | Window(Hi=870Lo=102) PATTAN3 | 0 | |
| S | S26 MASK SINGLE | E 26 | Window(Hi=1023Lo=102) PATTAN3 | 0 | |
| S | S27 MASK SINGLE | Ē 27 | Window(Hi=1023) Pattern 3 | 0 | |
| S | S28 MASK SINGLI | E 28 | Window(Hi=1023)4% Pattern 3 | 0 | |
| S | S29 MASK SINGLI | Ē 29 | Window(Hi=1023)1.25% Pattern 3 | 0 | |
| S | S30 MASK SINGLE | ∃ 30 | Window(1/7LINE) Pattern 3 | 0 | |
| S | S51 MASK SINGLE | 51 | Raster - White | 0 | |
| S | S52 MASK SINGLE | 52 | Raster - Red | 0 | |
| S | S53 MASK SINGLE | Ē 53 | Raster - Green | 0 | |
| S | S54 MASK SINGLE | Ē 54 | Raster - Blue | 0 | |
| S | S55 MASK SINGLE | E 55 | Raster - Black | 0 | |
| S | S56 MASK SINGLE | E 56 | Raster - Cyan | 0 | |
| S | S57 MASK SINGLE | Ē 57 | Raster - Magenta | 0 | |
| S | S58 MASK SINGLI | ≣ 58 | Raster - Yellow | 0 | |
| S | S59 MASK SINGLI | 5 9 | Raster - Cyan 460 :W | 0 | |
| S | S60 MASK SINGLE | E 60 | Raster - Green 774 :W | 0 | |
| s | S61 MASK SINGLE | E 61 | Raster - Gray 912 :W | 0 | |
| s | S62 MASK SINGLE | E 62 | Raster - Yellow egg color: W | 0 | |
| s | S63 MASK SINGLE | | Raster - Beige: W | 0 | |
| | S64 MASK SINGLE | | Raster - Sky color: W | 0 | |
| | S65 MASK SINGLE | | Raster - Pale purple: W | 0 | |
| | S66 MASK SINGLE | | Raster - Magenta 54 :W | 0 | |
| | S67 MASK SINGLE | | Raster - Red 588 | 0 | |
| | S68 MASK SINGLE | | Red 1023 + α | 0 | |
| | | | | | |
| | S69 MASK SINGLE | | Green 1023 + α | 0 | |
| | S70 MASK SINGLE | | Blue 1023 + α | 0 | |
| | S71 MASK SINGLE | | Red 588 + α | 0 | |
| | S72 MASK SINGLI | | Green 588 + α Blue 588 + α | 0 | |

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В

С

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В

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| 1 | mand ime | | Function | Effective only in Factory mode | Remarks |
|-----|-------------|---------------------------|--|--------------------------------|---------|
| MKS | S74 | MASK SINGLE 74 | Raster -Gray 512 (reservation) | 0 | |
| Р | | | | | |
| PAV | S** | PANEL AV MODE | Switching panel functions interlocked with the AV selection | | |
| РВН | *** | PANEL BLUE HIGH | Panel white balance adjustment - Blue highlight | 0 | |
| PBL | *** | PANEL BLUE LOW | Panel white balance adjustment - Blue low light | 0 | |
| PDM | S00 | PD MUTE OFF | Passing PD signals to the Power SUPPLY Unit => Power-down | | |
| | S01 | PD MUTE ON | Not passing PD signals to the Power SUPPLY Unit => No power-down | | |
| PFN | | FACTORY NO | Factory mode: off | 0 | |
| PFS | | PANEL FINAL SETUP | Setup at shipment | 0 | |
| PFY | | FACTORY YES | Factory mode: on | | |
| PGH | *** | PANEL GREEN HIGH | Panel white balance adjustment - Green highlight | 0 | |
| PGL | *** | PANEL GREEN LOW | Panel white balance adjustment - Green low light | 0 | |
| PGM | S** | PANEL GAMMA | Setting of the gamma table | | |
| PMT | S00 | MUTE OFF | Canceling panel muting | | |
| | S01 | MUTE ON | Panel muting | | |
| POF | | POWER OFF | Power off | | |
| PON | | POWER ON | Power on | | |
| PPT | S00 | PANEL PROTECT OFF | Panel protection: off | 0 | |
| | S01 | PANEL PROTECT ON | Panel protection: on | 0 | |
| PUC | S00 | PUER CINEMA:OFF | Pure cinema: off | | |
| | S01 | PUER CINEMA:STD | Pure cinema: standard | | |
| | S02 | PUER CINEMA:ADV | Pure cinema: advanced | | |
| Q | | | | | |
| QAJ | | QUEST ADJUSTMENT | Acquiring various adjustment values | | |
| QIP | | QUEST PANEL INFORMATION | Acquiring various input signal data | | |
| QPD | | QUEST POWER-DOWN | Acquiring logs of power-down points | | |
| QPM | | QUEST PULSE METER | Acquiring data of the pulse meter | | |
| QPW | | QUEST PANEL WHITE BALANCE | Acquiring panel white balance adjustment values | | |
| QS1 | | QUEST STATUS 1 | Acquiring data on the unit, such as the version of the program | | |
| QS2 | | QUEST STATUS 2 | Acquiring data on the status of the unit, such as temperature | | |
| QSD | | QUEST SHUT DOWN | Acquiring data on shutdown | | |
| QSI | | QUEST SIGNAL INFORMATION | Acquiring data related with signals | | |
| R | | | 7 toquining data rotatod mar olgrado | | |
| RBL | S** | PANEL REVISE BLUE LEVEL | Setting of blue level for panel degradation correction | 0 | |
| RGL | S** | PANEL REVISE GREEN LEVEL | Setting of green level for panel degradation correction | 0 | |
| RHI | *** | RED HIGH | User white balance - Red highlight | - | |
| RLW | *** | RED LOW | User white balance - Red low light | | |
| RRL | S** | PANEL REVISE RED LEVEL | Setting of red level for panel degradation correction | 0 | |
| RSW | *** | XY-RST-W ADJ | Adjustment of the width of XY reset pulse | 0 | |
| S | | - | , | - | |
| SDM | S00 | SD MUTE OFF | Shutdown enabled | | |
| | S01 | SD MUTE ON | Shutdown prohibited | | |
| SFR | S01 | SUS FREQUENCY MODE1 | Measures against AM radio noise - Pattern 1 | 0 | |
| | S02 | SUS FREQUENCY MODE2 | Measures against AM radio noise - Pattern 2 | 0 | |
| | S03 | SUS FREQUENCY MODE3 | Measures against AM radio noise - Pattern 3 | 0 | |
| | S04 | SUS FREQUENCY MODE4 | Measures against AM radio noise - Pattern 4 | 0 | |
| | S05 | SUS FREQUENCY MODE5 | Measures against AM radio noise - Pattern 5 | 0 | |
| | S06 | SUS FREQUENCY MODE6 | Measures against AM radio noise - Pattern 6 | 0 | |
| | S07 | SUS FREQUENCY MODE7 | Measures against AM radio noise - Pattern 7 | 0 | |
| ш | | | INVESTIGES AGAINST ANY TAUTO HOISE - 1 ALLETTY | ı Ü | |

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| Command Name | | | Function | Effective only in Factory mode | Remarks |
|-----------------|----------------|----------------------------|---|--------------------------------|---------|
| SFR | S08 | SUS FREQUENCY MODE8 | Measures against AM radio noise - Pattern 8 | 0 | |
| SMM | S** | SIDE MASK MODE | Setting of the effective area during streaking correction | 0 | |
| SN0 | *** | SERIAL NO 0 | Setting of the serial No. 0 (panel) | 0 | |
| SN1 | *** | SERIAL NO 1 | Setting of the serial No. 1 (panel) | 0 | |
| SN2 | *** | SERIAL NO 2 | Setting of the serial No. 2 (panel) | 0 | |
| SN3 | *** | SERIAL NO 3 | Setting of the serial No. 3 (panel) | 0 | |
| SN4 | *** | SERIAL NO 4 | Setting of the serial No. 4 (panel) | 0 | |
| SRS | S00 | SRS OFF | SRS function: off | | |
| | S01 | SRS ON | SRS function: on | | |
| SYS | S00 | SYSTEM CABLE NO | Prohibiting monitoring of cable disconnection detection | | |
| | S01 | SYSTEM CABLE YES | Permitting monitoring of cable disconnection detection | | |
| Т | | | Ç Ç | | |
| TBS | S00 | TRUBASS OFF | TruBass function: off | | |
| | S01 | TRUBASS ON | TruBass function: on | | |
| TRE | *** | TREBLE ADJUSTMENT | Audio treble adjustment | | |
| U | | | , | | |
| UAJ | | UN-ADJUSTMENT | Determining the flag for the HD DIGITAL Assy adjustment in "not adjusted" | 0 | |
| ٧ | | | | _ | |
| VFQ | S01 | FREQENCY VIDEO 48Hz | Setting the frequency in Mask mode to VD-48 Hz | 0 | |
| | | FREQENCY VIDEO 50Hz | Setting the frequency in Mask mode to VD-50 Hz | 0 | |
| | S03 | FREQENCY VIDEO 60Hz | Setting the frequency in Mask mode to VD-60 Hz | 0 | |
| | S05 | FREQENCY THEATER 72Hz | Setting the frequency in Mask mode to VD-72 Hz | 0 | |
| | S06 | FREQENCY 75Hz | Setting the frequency in Mask mode to VD-75 Hz | 0 | |
| | S13 | FREQENCY PC 60Hz | Setting the frequency in Mask mode to PC-60 Hz | 0 | |
| | S14 | FREQENCY PC 70Hz | Setting the frequency in Mask mode to PC-70 Hz | 0 | |
| | | | Setting the frequency in Mask mode to VD-50 Hz (nonstandard) | 0 | |
| | S23 | FREQENCY VIDEO 60Hz NONSTD | Setting the frequency in Mask mode to VD-60 Hz (nonstandard) | 0 | |
| | S25 | | Setting the frequency in Mask mode to VD-72 Hz (nonstandard) | 0 | |
| | S26 | FREQENCY VIDEO 75Hz NONSTD | Setting the frequency in Mask mode to VD-75 Hz (nonstandard) | 0 | |
| VOF | *** | Vofs ADJUSTMENT | Adjustment of the reference value of Vofs voltage | 0 | |
| VOL | *** | VOLUME | Audio volume adjustment | <u> </u> | |
| VRP | *** | Vrp ADJUSTMENT | Adjustment of the reference value of Vrst-p voltage | 0 | |
| VSU | *** | Vsus ADJUSTMENT | Adjustment of the reference value of Vsus voltage | 0 | |
| w | 4.4.4 | VSUS ADJUGITALITY | Adjustment of the reference value of vsus voltage | O | |
| WBI | S00 | WB INITIALIZE NO | Panel WB standard output mode: off | 0 | |
| WBI | S01 | WB INITIALIZE NO | Panel WB standard output mode: on | 0 | |
| | 301 | AND IMITIATIVE LES | ranei vvo stanuaru output moue: on | 0 | |
| X | alle alle alle | V CHC B AD I | V CLIC D AD I | | |
| XSB | *** | X-SUS-B ADJ | X-SUS-B ADJ | 0 | |
| Υ | | V 0110 D 4 D 1 | V 01/0 D 1 D 1 | | |
| YSB | *** | Y-SUS-B ADJ | Y-SUS-B ADJ | 0 | |
| YTG | *** | Y-SUSTAIL ADJ | Y-SUSTAIL ADJ | 0 | |
| YTW | *** | Y-SUSTAIL W AJD | Y-SUSTAIL W AJD | 0 | |

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В

С

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5. QUEST commands (for acquiring status)

With a QUEST command, data on STBY/ON, PD, and SD can be obtained while the unit is on.

■ Acquisition of panel statuses • • • [QS1]

The command QS1 is for acquiring data necessary for authentication of both the main unit's microcomputer and the module's microcomputer.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|-----------------------------------|--|
| [QS1] | All operations | To acquire data on product status | Return data: 3 (ECO)+43(DATA)+2(CS)=48Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|-------------------------|----------------|-------------------|
| ECO | | 3Byte | QS1 |
| 1 | Resolution/size | 1Byte | 5 |
| 2 | Generation | 1Byte | 6 |
| 3 | Destination | 1Byte | * |
| 4 | Grade | 1Byte | * |
| 5 | Product type | 1Byte | S |
| 6 | MDUcom-Boot | 3Byte | 01A |
| 7 | MDUcom-PRG | 8Byte | 001SM "space × 3" |
| 8 | SEQUENCE PROCESSOR-Boot | 3Byte | 01A |
| 9 | SEQUENCE PROCESSOR-Boot | 8Byte | 001AM "space × 3" |
| 10 | SQ-VIDEO(43/42) | 4Byte | 001X |
| 11 | SQ-PC(43/42) | 4Byte | 001X |
| 12 | SQ-VIDEO(50/61) | 4Byte | 001W |
| 13 | SQ-PC(50/61) | 4Byte | 001W |
| cs | | 2Byte | 7B |

| • Res | solution/size |
|-------|---------------|
| 4 | 1024*768-43 |
| 5 | 1280*768-50 |

| ● Generation | | |
|--------------|--|--|
| G6 | | |
| | | |

| 1 | Destination | | |
|---|-------------------------------|--------|--|
| | * | Common | |

| ● Grade | | |
|---------|--------|--|
| * | Common | |

| MDUcom/SEQUENCE PROCESSOR-Boot • • • 3Byte | | |
|--|---|--|
| 1st character 2nd character | | Representing the boot version in 2-digit decimal |
| | | |
| | Х | When the boot version is only for 43 |
| | W | When the boot version is only for 50 |

| ● Product type | | |
|----------------|--------------|--|
| S | System model | |

| ● MDUcom/s | SEQUE | NCE PROCESSOR-PRG • • • 8Byte | |
|---------------|-------|--|--|
| 1st character | 1 | For a mass-production product | |
| 2nd character | | For representing the version in 2-digit | |
| 3rd character | | decimal | |
| 4th character | Α | When the program is common to 43/50 (for SEQUENCE PROCESSOR) | |
| | S | When the program is only for another unit (for MDUcom) | |
| 5th character | М | Fixed | |
| 6th character | | Reservation | |
| 7th character | | Reservation | |
| 8th character | | Reservation | |

| SEQUENCE-Data • • • 8Byte | | |
|---------------------------|-----|---|
| 1st - 3rd characters | Num | For representing the version in 3-digit decimal |
| 4th character | W | When the sequence data are only for 50 |
| | Х | When the sequence data are only for 43 |

• For the version indication, the bytes reserved for special use must be replaced with spaces if they are not used.

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■ Acquisition of panel operation data • • • [QS2]

The command QS2 is for acquiring data on the panel's operations. Basically, this command is used for the module's microcomputer to inform the main unit's microcomputer of changes in panel operation.

| Command Format | Effective Operation Modes | Function | Remarks |
|----------------|---------------------------|--|--|
| [QS2] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+23(DATA)+2(CS)=28Byte |

| _ | | | |
|-----|--------------------------------------|----------------|----------------|
| | Data Arrangement | Data Length | Output Example |
| ECO | | 3Byte | QS2 |
| 1 | Notification of mode shifting to STB | 1Byte | 1 |
| 2 | Flag for adjustment of the main unit | 1Byte | 0 |
| 3 | Flag for adjustment-data backup | 1Byte | 0 |
| 4 | "1st PD" data | 1Byte | 0 |
| 5 | "2nd PD" data | 1Byte | 0 |
| 6 | Reservation | 3Byte | *** |
| 7 | Temperature data (TEMP 1) | 3Byte | 128 |
| 8 | SD main data | 1Byte | 0 |
| 9 | SD subdata | 1Byte | 0 |
| 10 | Operation status induced by SD | 1Byte | 0 |
| 11 | Data from the hour meter | 8Byte | 00000259 |
| 12 | MASK indication | 1Byte | 0 |
| cs | | 2Byte | 4A |

Note: "00000259" of "Data from the hour meter" means 2 hours 59 minuts.

| Notification of mode shifting to Standby | | |
|--|---------------------------------|--|
| 0 | Entering Standby mode failed | |
| 1 | Entering Standby mode succeeded | |

| Adjustment of the main unit | | |
|-----------------------------|--------------------------|--|
| 0 | Adjustment completed | |
| 1 | Adjustment not completed | |

| Adjustment-data backup | |
|------------------------|------------------|
| 0 | With backup data |
| 1 | No data |

| • PD | ● PD data | | |
|------|-------------------------|--|--|
| 0 | No PD data | | |
| 1 | Not used | | |
| 2 | POWER | | |
| 3 | SCAN | | |
| 4 | SCN-5V | | |
| 5 | Not used | | |
| 6 | Y-DCDC | | |
| 7 | Y-SUS | | |
| 8 | ADRS | | |
| 9 | X-DRV | | |
| Α | X-DCDC | | |
| В | X-SUS | | |
| С | Not used | | |
| D | SQ-IC | | |
| Е | Not used | | |
| F | Specification inability | | |

| ● SD main data | | |
|----------------|-------------------------------|--|
| 0 | No SD | |
| 1 | SQ-IC | |
| 2 | MDU-IIC | |
| 3 | RST2 | |
| 4 | Panel having high temperature | |
| 5 | Short-circuited speaker | |
| | • | |

| ● SD subdata (IIC) | | |
|--------------------|---------------|--|
| 0 | No SD subdata | |
| 1 | EEPROM | |
| 2 | BACKUP | |
| 3 | DAC | |
| 4 | VOL IC | |
| 5 | DVI | |

| Operation status induced by SD | | |
|--|---------------------------|--|
| 0 | Normal | |
| 1 | Relay-off completed | |
| 2 | During warning indication | |

| MASK indication | | |
|-----------------|----------|--|
| 0 | MASK-OFF | |
| 1 | MASK-ON | |

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В

D

Ε

■ Acquisition of other data on the panel • • • [QIP]

The command QIP is for acquiring data other than those available with QS1 (data necessary before turning the power on) and QS2 (data to inform of operational status change).

3

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|------------------------------|--|--|
| [QIP] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+39(DATA)+2(CS)=44Byte |

| I | Data Arrangement | | Output Example |
|-----|------------------|--------|----------------|
| ECO | ECO | | QIP |
| 1 | SERIAL | 15Byte | |
| 2 | HOUR METER | 8Byte | 00000000 |
| 3 | BACKUP HR MTR | 8Byte | 00000000 |
| 4 | PON COUNTER | 8Byte | 00000000 |
| cs | cs | | 94 |

Note: The real product serial number is displayed in "SERIAL".

■ Acquisition of panel adjustment data (common data) • • • [QAJ]

The command QAJ is for acquiring data on the panel's factory-preset items that are common to the main unit and that share the same memory.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|------------------------------|--|--|
| [QAJ] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+27(DATA)+2(CS)=32Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--------------------------|----------------|----------------|
| ECO | | 3Byte | QAJ |
| 1 | V-SUS adjustment value | 3Byte | 128 |
| 2 | V-OFT adjustment value | 3Byte | 128 |
| 3 | V-RST-P adjustment value | 3Byte | 128 |
| 4 | XSB adjustment value | 3Byte | 128 |
| 5 | YSB adjustment value | 3Byte | 128 |
| 6 | YTG adjustment value | 3Byte | 128 |
| 7 | YTW adjustment value | 3Byte | 128 |
| 8 | RSW adjustment value | 3Byte | 128 |
| 9 | R-RIVISE setting value | 1Byte | 0 |
| 10 | G-RIVISE setting value | 1Byte | 0 |
| 11 | B-RIVISE setting value | 1Byte | 0 |
| cs | | 2Byte | B7 |

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Ε

В

С

■ Acquisition of ABL/WB adjustment data • • • [QPW]

The command QPW is for acquiring data on the panel's factory-preset items whose memory tables are changed in sequence.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|--|--|
| [QPW] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+35(DATA)+2(CS)=40Byte |

| | - | Data | Output |
|-----|-------------------------------------|--------|---------|
| | Data Arrangement | Length | Example |
| ECO | | 3Byte | QPW |
| 1 | Drive sequence | 3Byte | 60V |
| 2 | Standard/nonstandard | 1Byte | S |
| 3 | Type of ABL/WB tables | 2Byte | T2 |
| 4 | ABL adjustment value | 3Byte | 128 |
| 5 | R-HIGH adjustment value | 3Byte | 256 |
| 6 | G-HIGH adjustment value | 3Byte | 256 |
| 7 | B-HIGH adjustment value | 3Byte | 256 |
| 8 | R-LOW adjustment value | 3Byte | 512 |
| 9 | G-LOW adjustment value | 3Byte | 512 |
| 10 | B-LOW adjustment value | 3Byte | 512 |
| 11 | Gamma setting | 1Byte | Α |
| 12 | Streaking correction | 1Byte | 1 |
| 13 | Peripheral luminance correction | 1Byte | 0 |
| 14 | Reservation | 1Byte | * |
| 15 | WB interlocked with APL | 1Byte | 0 |
| 16 | Transition of protective operations | 1Byte | 0 |
| 17 | Reservation | 2Byte | ** |
| cs | | 2Byte | 37 |

| • Driv | Drive sequence | | |
|--------|----------------|--|--|
| 48V | 48V Video48 Hz | | |
| 50V | Video50 Hz | | |
| 60V | Video60 Hz | | |
| 72V | Video72 Hz | | |
| 75V | Video75 Hz | | |
| 60P | PC60Hz | | |
| 70P | PC70Hz | | |

| ● Setting for Items 12 and 15 | | | | |
|---------------------------------|-----|--|--|--|
| 0 | OFF | | | |
| 1 | ON | | | |
| Peripheral luminance correction | | | | |
| | | | | |
| | | | | |

В

| Standard/ nonstandard | | | |
|-----------------------|-------------|--|--|
| S | Standard | | |
| N | Nonstandard | | |

| Transition of brightness by protective operations | | | |
|---|--|--|--|
| 0 Upper limit state for brightness | | | |
| 1 Brightness being reduced | | | |
| 2 Lower limit state for brightness | | | |
| 3 Brightness being increased | | | |

| n 0 to F | ● Gamma setting | | | | |
|----------|-----------------|--------|--|--|--|
| | n | 0 to F | | | |

| • Тур | oe of ABL/WB tables |
|-------|---------------------|
| Tn | n: 1 to 4 |

■ Acquisition of parameters • • • [QPM]

The command QPM is for acquiring the accumulated number of pulses for each of 5 blocks from the EEPROM.

| Command Format | Effective Operation Modes | Function | Remarks | | |
|-------------------|---------------------------|--|--|--|--|
| [QPM] | All operations | To acquire data on operations of the panel | Return data: 3 (ECO)+40(DATA)+2(CS)=45Byte | | |

| l | Data Arrangement | Data Length | Output Example |
|-----|------------------|----------------|----------------|
| ECO | | 3Byte | QPM |
| 1 | Pulse meter B 1 | 8Byte | 00000000 |
| 2 | Pulse meter B 2 | 8Byte | 00000000 |
| 3 | Pulse meter B 3 | 8Byte | 00000000 |
| 4 | Pulse meter B 4 | 8Byte | 00000000 |
| 5 | Pulse meter B 5 | 8Byte | 00000000 |
| cs | | 2Byte | E7 |

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• The output data on the accumulated number of pulses for each block are calculated in the following way: the high-order 4 bytes of the accumulated number of pulses for each block are converted into a decimal number, and the high-order 8 digits are transmitted. The unit of each block is M_pulse (mega).

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Е

■ Acquisition of PD logs • • • [QPD]

The command QPD is for acquiring data from the 8 latest power-down (PD) logs.

| Command Format | Effective Operation Modes | Function | Remarks |
|-------------------|---------------------------|--|--|
| [QPD] | All operations | To acquire data on the power-down logs | Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte |

3

| | Data Arrangement | Data Length | Output Example |
|-----|--|----------------|----------------|
| ECO | ECO | | QPD |
| 1 | Latest "1st PD" data | 1byte | Α |
| 2 | Latest "2nd PD" data | 1byte | 2 |
| 3 | Data from the hour meter for the latest PD | 8byte | 00010020 |
| 4 | Second latest "1st PD" data | 1byte | E |
| 5 | Second latest "2nd PD" data | 1byte | 9 |
| 6 | Data from the hour meter for the second latest PD | 8byte | 00008523 |
| 7 | Third latest "1st PD" data | 1byte | 4 |
| 8 | Third latest "2nd PD" data | 1byte | 3 |
| 9 | Data from the hour meter for the third latest PD | 8byte | 00004335 |
| 10 | Fourth latest "1st PD" data | 1byte | 2 |
| 11 | Fourth latest "2nd PD" data | 1byte | 0 |
| 12 | Data from the hour meter for the fourth latest PD | 8byte | 00000945 |
| 13 | Fifth latest "1st PD" data | 1byte | 4 |
| 14 | Fifth latest "2nd PD" data | 1byte | 0 |
| 15 | Data from the hour meter for the fifth latest PD | 8byte | 00000715 |
| 16 | Sixth latest "1st PD" data | 1byte | Α |
| 17 | Sixth latest "2nd PD" data | 1byte | 2 |
| 18 | Data from the hour meter for the sixth latest PD | 8byte | 00000552 |
| 19 | Seventh latest "1st PD" data | 1byte | Α |
| 20 | Seventh latest "2nd PD" data | 1byte | 0 |
| 21 | Data from the hour meter for the seventh latest PD | 8byte | 00000213 |
| 22 | Eighth latest "1st PD" data | 1byte | D |
| 23 | Eighth latest "2nd PD" data | 1byte | 0 |
| 24 | Data from the hour meter for the eighth latest PD | 8byte | 000001A7 |
| cs | | 2Byte | 27 |

| ● PD data | | | | |
|-----------|-------------------------|--|--|--|
| 0 | No PD | | | |
| 1 | Not used | | | |
| 2 | P-POWER | | | |
| 3 | SCAN | | | |
| 4 | SCN-5V | | | |
| 5 | Not used | | | |
| 6 | Y-DCDC | | | |
| 7 | Y-SUS | | | |
| 8 | Address | | | |
| 9 | X-DRIVE | | | |
| Α | X-DCDC | | | |
| В | X-SUS | | | |
| С | DIG-DCDC | | | |
| D | QS (driving stopped) | | | |
| Е | Not used | | | |
| F | Specification inability | | | |

Ε

В

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■ Acquisition of SD logs • • • [QSD]

The command QSD is for acquiring the data from the 8 latest shutdown (SD) logs.

| Command Effective Operation Modes | | Function | Remarks |
|-----------------------------------|----------------|--------------------------------------|--|
| [QSD] | All operations | To acquire data on the shutdown logs | Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--|----------------|----------------|
| ECO | ECO | | QSD |
| 1 | Latest SD data | 1byte | 1 |
| 2 | Latest SD subcategory data | 1byte | 0 |
| 3 | Data from the hour meter for the latest SD | 8byte | 00752013 |
| 4 | Second latest SD data | 1byte | 5 |
| 5 | Second latest SD subcategory data | 1byte | 0 |
| 6 | Data from the hour meter for the second latest SD | 8byte | 00495204 |
| 7 | Third latest SD data | 1byte | 2 |
| 8 | Third latest SD subcategory data | 1byte | 3 |
| 9 | Data from the hour meter for the third latest SD | 8byte | 00100355 |
| 10 | Fourth latest SD data | 1byte | 2 |
| 11 | Fourth latest SD subcategory data | 1byte | 5 |
| 12 | Data from the hour meter for the fourth latest SD | 8byte | 00075620 |
| 13 | Fifth latest SD data | 1byte | 1 |
| 14 | Fifth latest SD subcategory data | 1byte | 0 |
| 15 | Data from the hour meter for the fifth latest SD | 8byte | 00000852 |
| 16 | Sixth latest SD data | 1byte | 2 |
| 17 | Sixth latest SD subcategory data | 1byte | 5 |
| 18 | Data from the hour meter for the sixth latest SD | 8byte | 000000451 |
| 19 | Seventh latest SD data | 1byte | 0 |
| 20 | Seventh latest SD subcategory data | 1byte | 0 |
| 21 | Data from the hour meter for the seventh latest SD | 8byte | 00000000 |
| 22 | Eighth latest SD data | 1byte | 0 |
| 23 | Eighth latest SD subcategory data | 1byte | 0 |
| 24 | Data from the hour meter for the eighth latest SD | 8byte | 00000000 |
| cs | | 2Byte | 7D |

| ● SD data | | | |
|-----------|-------------------------------|--|--|
| 0 | No SD | | |
| 1 | SQ-IC | | |
| 2 | MDU-IIC | | |
| 3 | RST2 | | |
| 4 | Panel having high temperature | | |
| 5 | Short-circuited speaker | | |

В

D

Ε

| ● SD subcategory | | | |
|------------------|-------------------|--|--|
| 0 | No SD subcategory | | |
| 1 | EEPROM | | |
| 2 | BACKUP | | |
| 3 | DAC | | |
| 4 | VOL-IC | | |
| 5 | DVI | | |
| 6 | Not used | | |

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■ Acquisition of input signal data • • • [QSI]

The command QSI is for acquiring all data on input video signals.

| Command Format | Effective Operation Modes | Function | Remarks |
|----------------|---------------------------|--|--|
| [QSI] | All operations | To acquire all data on input video signals | Return data: 3 (ECO)+66(DATA)+2(CS)=71Byte |

| | Data Arrangement | Data Length | Output Example |
|-----|--|----------------|----------------|
| ECO | | 3Byte | QSI |
| 1 | Type of drive sequence | 3byte | 60V |
| 2 | Standard/nonstandard | 1byte | S |
| 3 | Type of ABL/WB tables | 2byte | T1 |
| 4 | Total value of PCN | 4byte | 0256 |
| 5 | Total value of PRH | 4byte | 0256 |
| 6 | Total value of PGH | 4byte | 0256 |
| 7 | Total value of PBH | 4byte | 0256 |
| 8 | Total value of PBR | 4byte | 0512 |
| 9 | Total value of PRL | 4byte | 0512 |
| 10 | Total value of PGL | 4byte | 0512 |
| 11 | Total value of PBL | 4byte | 0512 |
| 12 | Reservation | 2byte | ** |
| 13 | Detection of existence of H | 1byte | Υ |
| 14 | Detection of V frequency | 4byte | 6002 |
| 15 | Reservation | 4byte | **** |
| 16 | Obtained APL data | 4byte | 1023 |
| 17 | Number of SUS pulses | 4byte | 0457 |
| 18 | Result of detection of still picture | 1byte | 1 |
| 19 | Result of detection of cracking in the panel | 1byte | 1 |
| 20 | Result of detection for scanning protection | 1byte | 1 |
| 21 | Result of detection for external protection | 1byte | 1 |
| 22 | Transition of protection operation | 1byte | 0 |
| 23 | Reservation | 4byte | **** |
| cs | | 2Byte | 27 |

| Det | Detection of existence of H | | |
|-----------------------|-----------------------------|--|--|
| N | No H | | |
| Υ | H detected | | |

| Transition of brightness by protection operation | | | |
|--|----------------------------------|--|--|
| 0 | Upper limit state for brightness | | |
| 1 | Brightness being reduced | | |
| 2 | Lower limit state for brightness | | |
| 3 | Brightness being increased | | |

- If data for an item cannot be obtained during Standby mode, the return data for that item will be "*."
- The types of data for Items 1-3 in the table (drive sequence, standard/nonstandard, and type of ABL/WB tables) are the same as with the command QPW.
- Each total value for Items 4-11 represents that of panel WB, user WB, and degradation correction, and the actual data being sent to the ASTRA are output.
- Detection of V frequency: The V signal input to the panel is measured in the range of 30.51 to 99.99 Hz. The measured value is multiplied by 100 and then output.
- Number of SUS pulses: The number is calculated from data from APL and the drive sequence. The output value must be between 0174 and 2752.
- APL value: The APL value for the input video signal (or mask indication) will be output in the range of 0000 to 1023.

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В

PDP-436PE

1

3

■ Setting for Factory mode permission/prohibition • • • [FAY/FAN] [PFY/PFN]

The commands FAY/FAN and PFY/PFN are for prohibiting/permitting panel-adjustment commands during normal operation and are to be used to avoid accidental change of panel adjustment values.

| | Operation | | Remarks | |
|-------------------|---|----------------------|---|--|
| Command Format | Effective Operation Control (by the microcomputer itself) | | | |
| [FAY] | Normal operation mode while the power is on | Adjustment mode: ON | Mask indications will be forcibly turned off. | |
| [PFY] | | | With a PFY command, the mask does not change. | |
| [FAN] | During FAV | Adjustment meder OFF | | |
| [PFN] | During FAY | Adjustment mode: OFF | | |

• Commands that are effective during normal operation will also be effective during FAY (PFY) mode.

Note:

• The functions shown below will be forcibly switched when Mask ON/OFF is switched. (Even if the panel is off, changed settings will be retained.)

While the status of Mask ON or OFF is maintained, if settings for the individual functions shown in ① and ② are changed, those settings are retained (even if the drive frequency is changed).

1) Functions related to picture quality

| Function | Setting while Mask is ON | Setting while Mask is OFF | Remarks |
|------------------------------------|--------------------------|---------------------------|---------|
| Peripheral luminance correction | OFF | ON | |
| WB correction interlocked with APL | OFF | ON | |
| Streaking correction | OFF | ON | |

2 Functions related to panel protection

| Function | Setting while Mask is ON | Setting while Mask is OFF | Remarks |
|------------------------------------|--------------------------|---------------------------|---------|
| Detection of still picture | OFF | ON | |
| Detection of cracking in the panel | OFF | ON | |
| Scanning protection | OFF | ON | |

• Depending on the type of mask displayed, phosphor burn of the panel may occur. As the panel-protection function is forcibly turned off with this model, care must be taken when color-bar signals are to be displayed for an extended period.

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В

D

Ε

■ Backup function for adjustment values for the main unit • • • [FAJ/UAJ/CBU/BCP]

When the HD DIGITAL Assy is to be replaced, adjustment values can be copied from the backup EEPROM to the EEPROM of the Assy for service.

| Camana d | Operation | | | |
|-------------------|---------------------------|--|--|--------------------------------|
| Command Format | Effective Operation Modes | Control (by the microcomputer itself) | | Remarks |
| [FAJ] | | To make the flag setting that indicating that adjustment of the main unit has been completed | Writing 00 to the 4-kbyte ROM and copying to the 2-kbyte ROM | This takes at least 350 ms. |
| [UAJ] | During FAY | To make the flag setting that indicating that adjustment of the main unit has not been completed | Writing F0 to the 4-kbyte ROM | |
| [CBU] | | To make the flag setting that indicating that backup data have not been copied | Writing F0 to the 2-kbyte ROM | The backup ROM is initialized. |
| [BCP] | | To make the flag setting that indicating that backup data have been copied | Copying backup data | |

When the flag indicating that the line adjustments (SUS waveform, voltage margin, and panel WB) for the main unit have been completed is set to on, data stored from Addresses 0x0000 to 0X00FF in the digital EEPROM are copied to the same addresses of the backup EEPROM. Copying will be executed immediately before the relay of normal operation is off.

- When the command BCP is received while a warning indicating that backup copying has not been completed is displayed (conditions: main EEPROM = not adjusted, and backup EEPROM = adjusted), backed-up data will be copied to the main EEPROM, and various adjustment values related to Factory mode will be readjusted. Then LED warning indication will be shut off, and normal LED indication will be restored.
- If the backup EEPROM has not been adjusted when the command BCP is received (0x0063 is not written to all three addresses of the key data), copying of the backup data is not possible, and "XXX" is returned.

| Address | EEPROM for the module microcomputer | . Writing when the power is | EEPROM for data backup | Address |
|------------------|---|--|---|--------------|
| 0x0000 0x00FF | Data that need backup, such as adjustment values for the main unit and the data from the hour meter | off, etc. | Data that need backup, such as adjustment values for the main unit and the data from the hour meter | 0x00 0xFF |
| 0x0100 | Data that do not need backup, such as raster mask color | Executing copying with the command BCP | | - |

Note:

Ε

В

- When the command FAJ, UAJ, or CBU is executed, only high-order one-byte (0x00 or 0xF0) key data will be written to the EEPROM, and lower-order one-byte (0x63) data will not be changed.
- It takes at least 350 ms from reception of the command FAJ until an echo is sent back, because data are copied to the backup EEPROM.

■ Factory presetting • • • [PFS]

| Command | | Operation | |
|-------------------|------------------------------|---------------------------------------|---------|
| Command Format | Effective Operation Modes | Control (by the microcomputer itself) | Remarks |
| [PFS] | During FAY | Initialized to factory-preset values | |

• When this command is executed, the values not stored in the EEPROM are initialized, mask indication is set to OFF, control of the power for line aging is set to OFF, and detection of the system cable is set to ON.

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PDP-436PE

3

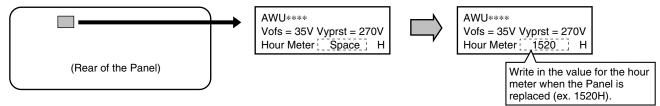
6.3 METHOD FOR REPLACING THE SERVICE PANEL ASSY

When the Panel Assy is replaced with one for service, the following adjustments are required:

■ Adjustments of Vofs voltage and Vyprst voltage

Enter the reference adjustment values for the Vofs voltage and Vyprst voltage that are written on the label attached to the panel for service.

Note: Enter the values, using an RS-232C command or the Factory Menu.



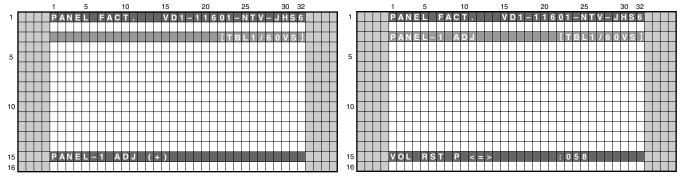
Using an RS-232C command

Enter a "PFY" command with Factory mode ON.

Convert the adjustment voltage values written on the label attached at the rear of the Panel to an input command, referring to the conversion chart. (See the next page.)

- Reference adjustment of the Vofs voltage: Ex. "Vofs = 35" → (Check the conversion chart.) Enter "VOF112."
- Reference adjustment of the Vyprst voltage: Ex. 50-inch "Vyprst = 270 V" → (Check the conversion chart.) Enter "VRP055." (Note that the conversion charts for 50-inch and 43-inch Panels are different.)

Using the Factory Menu



Select the main item "PANEL FACT." by pressing the MUTE key then enter Panel Factory mode by pressing the SET key. Using the \triangle/∇ keys, select "PANEL-1 ADJ" then press the SET key to enter the next lower nested layer. Select "VOL-OFFSET" or "VOL RST P" then enter a command value converted from the voltage value, using the $\triangleleft/\triangleright$ keys.

■ Clearing data on various histories of the Panel, such as those on the hour meter

- It is necessary to clear the data on the hour meter, etc. to match them to the actual driving hours of the Panel.
- It is also necessary to clear the data on SD and PD, because the accumulated power-on time when a shutdown or power-down occurred is recorded.

Note: Clear the values, using an RS-232C command or the Factory Menu.

There are two types of hour meters. Do not take the MR hour meter for the hour meter.

Using an RS-232C command

To acquire the accumulated power-on time of the product itself, use the "GS2" RS-232C command.

1 To clear the data on the hour meter (for the Panel) : CHM 2 To clear the data on the pulse meter : CPM 3 To clear the data on the SD history : CSD 4 To clear the data on the PD history : CPD

Using the Factory Menu

See "7.1.7 HOW TO CLEAR HISTORY DATA."

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В

D

Ε

■ Conversion charts for electronic VRs: Conversion chart for the Vofs

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| Conversion (| chart for the | e Vofs (Com | mands vs. (| Common vo | ltage values | for the 50-ii | nch and 43- | inch models | s) |
|------------------|--|------------------|--|------------------|--|------------------|--|-------------|--|
| Command | Voltage value [V] for common sizes | Command | Voltage value [V] for common size |
| VOF000 | 14.09 | VOF056 | 24.55 | VOF112 | 35.01 | VOF168 | 45.47 | VOF224 | 55.93 |
| VOF001 | 14.28 | VOF057 | 24.74 | VOF113 | 35.20 | VOF169 | 45.66 | VOF225 | 56.12 |
| VOF002 | 14.46 | VOF058 | 24.92 | VOF114 | 35.38 | VOF170 | 45.85 | VOF226 | 56.31 |
| VOF003 | 14.65 | VOF059 | 25.11 | VOF115 | 35.57 | VOF171 | 46.03 | VOF227 | 56.49 |
| VOF004 | 14.84 | VOF060 | 25.30 | VOF116 | 35.76 | VOF172 | 46.22 | VOF228 | 56.68 |
| VOF005 | 15.02 | VOF061 | 25.48 | VOF117 | 35.95 | VOF173 | 46.41 | VOF229 | 56.87 |
| VOF006 | 15.21 | VOF062 | 25.67 | VOF118 | 36.13 | VOF174 | 46.59 | VOF230 | 57.05 |
| VOF007 | 15.40 | VOF063 | 25.86 | VOF119 | 36.32 | VOF175 | 46.78 | VOF231 | 57.24 |
| VOF008 | 15.58 | VOF064 | 26.04 | VOF120 | 36.51 | VOF176 | 46.97 | VOF232 | 57.43 |
| VOF009 | 15.77 | VOF065 | 26.23 | VOF121 | 36.69 | VOF177 | 47.15 | VOF233 | 57.61 |
| VOF010 | 15.96 | VOF066 | 26.42 | VOF122 | 36.88 | VOF178 | 47.34 | VOF234 | 57.80 |
| VOF011 | 16.14 | VOF067 | 26.61 | VOF123 | 37.07 | VOF179 | 47.53 | VOF235 | 57.99 |
| VOF012 | 16.33 | VOF068 | 26.79 | VOF124 | 37.25 | VOF180 | 47.71 | VOF236 | 58.17 |
| VOF013 | 16.52 | VOF069 | 26.98 | VOF125 | 37.44 | VOF181 | 47.90 | VOF237 | 58.36 |
| VOF014 | 16.70 | VOF070 | 27.17 | VOF126 | 37.63 | VOF182 | 48.09 | VOF238 | 58.55 |
| VOF015 | 16.89 | VOF071 | 27.35 | VOF127 | 37.81 | VOF183 | 48.27 | VOF239 | 58.73 |
| VOF016 | 17.08 | VOF072 | 27.54 | VOF128 | 38.00 | VOF184 | 48.46 | VOF240 | 58.92 |
| VOF017 | 17.27 | VOF073 | 27.73 | VOF129 | 38.19 | VOF185 | 48.65 | VOF241 | 59.11 |
| VOF018 | 17.45 | VOF074 | 27.91 | VOF130 | 38.37 | VOF186 | 48.83 | VOF242 | 59.30 |
| VOF019 | 17.64 | VOF075 | 28.10 | VOF131 | 38.56 | VOF187 | 49.02 | VOF243 | 59.48 |
| VOF020 | 17.83 | VOF076 | 28.29 | VOF132 | 38.75 | VOF188 | 49.21 | VOF244 | 59.67 |
| VOF021 | 18.01 | VOF077 | 28.47 | VOF133 | 38.93 | VOF189 | 49.39 | VOF245 | 59.86 |
| VOF022 | 18.20 | VOF078 | 28.66 | VOF134 | 39.12 | VOF190 | 49.58 | VOF246 | 60.04 |
| VOF023 | 18.39 | VOF079 | 28.85 | VOF135 | 39.31 | VOF191 | 49.77 | VOF247 | 60.23 |
| VOF024 | 18.57 | VOF080 | 29.03 | VOF136 | 39.49 | VOF192 | 49.96 | VOF248 | 60.42 |
| VOF025 | 18.76 | VOF081 | 29.22 | VOF137 | 39.68 | VOF193 | 50.14 | VOF249 | 60.60 |
| VOF026 | 18.95 | VOF082 | 29.41 | VOF138 | 39.87 | VOF194 | 50.33 | VOF250 | 60.79 |
| VOF027 | 19.13 | VOF083 | 29.59 | VOF139 | 40.05 | VOF195 | 50.52 | VOF251 | 60.98 |
| VOF028 | 19.32 | VOF084 | 29.78 | VOF140 | 40.24 | VOF196 | 50.70 | VOF252 | 61.16 |
| VOF029 | 19.51 | VOF085 | 29.97 | VOF141 | 40.43 | VOF197 | 50.89 | VOF253 | 61.35 |
| VOF030 | 19.69 | VOF086 | 30.15 | VOF142 | 40.62 | VOF198 | 51.08 | VOF254 | 61.54 |
| VOF031 | 19.88 | VOF087 | 30.34 | VOF143 | 40.80 | VOF199 | 51.26 | VOF255 | 61.72 |
| VOF032 | 20.07 | VOF088 | 30.53 | VOF144 | 40.99 | VOF200 | 51.45 | | - |
| VOF033 | 20.25 | VOF089 | 30.71 | VOF145 | 41.18 | VOF201 | 51.64 | | |
| VOF034 | 20.44 | VOF090 | 30.90 | VOF146 | 41.36 | VOF202 | 51.82 | | |
| VOF035 | 20.63 | VOF091 | 31.09 | VOF147 | 41.55 | VOF203 | 52.01 | | |
| VOF036 | 20.81 | VOF092 | 31.28 | VOF148 | 41.74 | VOF204 | 52.20 | | |
| VOF037 | 21.00 | VOF093 | 31.46 | VOF149 | 41.92 | VOF205 | 52.38 | | |
| VOF038 | 21.19 | VOF094 | 31.65 | VOF150 | 42.11 | VOF206 | 52.57 | | |
| VOF039 | 21.37 | VOF095 | 31.84 | VOF151 | 42.30 | VOF207 | 52.76 | | |
| VOF040 | 21.56 | VOF096 | 32.02 | VOF152 | 42.48 | VOF208 | 52.94 | | |
| VOF040 | 21.75 | VOF097 | 32.21 | VOF152 | 42.67 | VOF209 | 53.13 | | |
| VOF041 | 21.73 | VOF098 | 32.40 | VOF154 | 42.86 | VOF210 | 53.32 | | |
| VOF042 | 22.12 | VOF099 | 32.58 | VOF155 | 43.04 | VOF211 | 53.50 | | |
| VOF044 | 22.31 | VOF100 | 32.77 | VOF156 | 43.23 | VOF211 | 53.69 | | |
| VOF045 | 22.50 | VOF101 | 32.96 | VOF157 | 43.42 | VOF212 | 53.88 | | |
| VOF046 | 22.68 | VOF101 | 33.14 | VOF158 | 43.60 | VOF214 | 54.06 | | |
| VOF047 | 22.87 | VOF102 | 33.33 | VOF159 | 43.79 | VOF215 | 54.25 | | |
| VOF048 | 23.06 | VOF104 | 33.52 | VOF160 | 43.98 | VOF216 | 54.44 | | |
| VOF049 | 23.24 | VOF105 | 33.70 | VOF161 | 44.16 | VOF217 | 54.63 | | |
| VOF050 | 23.43 | VOF105 | 33.89 | VOF162 | 44.35 | VOF217 | 54.81 | | |
| VOF050 VOF051 | 23.62 | VOF100 | 34.08 | VOF162 VOF163 | 44.54 | VOF218 | 55.00 | | + |
| VOF051 | 23.80 | VOF107 VOF108 | 34.26 | VOF163 | 44.72 | VOF219 VOF220 | 55.00 | | |
| VOF052 VOF053 | 23.99 | VOF108 VOF109 | 34.45 | VOF164 VOF165 | 44.72 | VOF220 VOF221 | 55.19 | | - |
| VOF053 VOF054 | 23.99 | | 34.45 | | 45.10 | VOF221 VOF222 | | | |
| v UFU34 | 24.10 | VOF110 | 34.04 | VOF166 | 43.10 | V U F Z Z Z | 55.56 | | 1 |

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■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (1/2)

| Conversion chart for the Vyprst (Commands vs. Voltage values for the 50-inch and 43-inch models) | | | | | | | | |
|--|---------------|---------------------|---------|---------------|---------------|------------------|---------------|-------------|
| Command Voltage [V] | | Command Voltage [V] | | | Command | Volta | ige [V] | |
| Command | 50-inch Model | 43-inch Model | Command | 50-inch Model | 43-inch Model | Command | 50-inch Model | 43-inch Mod |
| VRP000 | 246.3 | 236.3 | VRP056 | 270.6 | 260.6 | VRP112 | 294.9 | 284.9 |
| VRP001 | 246.7 | 236.7 | VRP057 | 271.0 | 261.0 | VRP113 | 295.4 | 285.4 |
| VRP002 | 247.1 | 237.1 | VRP058 | 271.5 | 261.5 | VRP114 | 295.8 | 285.8 |
| VRP003 | 247.6 | 237.6 | VRP059 | 271.9 | 261.9 | VRP115 | 296.2 | 286.2 |
| VRP004 | 248.0 | 238.0 | VRP060 | 272.3 | 262.3 | VRP116 | 296.7 | 286.7 |
| VRP005 | 248.4 | 238.4 | VRP061 | 272.8 | 262.8 | VRP117 | 297.1 | 287.1 |
| VRP006 | 248.9 | 238.9 | VRP062 | 273.2 | 263.2 | VRP118 | 297.5 | 287.5 |
| VRP007 | 249.3 | 239.3 | VRP063 | 273.6 | 263.6 | VRP119 | 298.0 | 288.0 |
| VRP008 | 249.7 | 239.7 | VRP064 | 274.1 | 264.1 | VRP120 | 298.4 | 288.4 |
| VRP009 | 250.2 | 240.2 | VRP065 | 274.5 | 264.5 | VRP121 | 298.8 | 288.8 |
| VRP010 | 250.6 | 240.6 | VRP066 | 274.9 | 264.9 | VRP122 | 299.3 | 289.3 |
| VRP011 | 251.0 | 241.0 | VRP067 | 275.4 | 265.4 | VRP123 | 299.7 | 289.7 |
| VRP012 | 251.5 | 241.5 | VRP068 | 275.8 | 265.8 | VRP124 | 300.1 | 290.1 |
| VRP013 | 251.9 | 241.9 | VRP069 | 276.2 | 266.2 | VRP125 | 300.6 | 290.6 |
| VRP014 | 252.4 | 242.4 | VRP070 | 276.7 | 266.7 | VRP126 | 301.0 | 291.0 |
| VRP015 | 252.8 | 242.8 | VRP071 | 277.1 | 267.1 | VRP127 | 301.4 | 291.4 |
| VRP016 | 253.2 | 243.2 | VRP072 | 277.5 | 267.5 | VRP128 | 301.9 | 291.9 |
| VRP017 | 253.7 | 243.7 | VRP073 | 278.0 | 268.0 | VRP129 | 302.3 | 292.3 |
| VRP018 | 254.1 | 244.1 | VRP074 | 278.4 | 268.4 | VRP130 | 302.7 | 292.7 |
| VRP019 | 254.5 | 244.1 | VRP075 | 278.9 | 268.9 | VRP131 | 303.2 | 293.2 |
| VRP020 | 255.0 | 244.5 | VRP076 | 279.3 | 269.3 | VRP131 | 303.2 | 293.2 |
| VRP020 VRP021 | 255.4 | 245.0 | | 279.3 | 269.3 | VRP132 VRP133 | 303.6 | 293.6 |
| | | | VRP077 | | | | | |
| VRP022 | 255.8 | 245.8 | VRP078 | 280.2 | 270.2 | VRP134 | 304.5 | 294.5 |
| VRP023 | 256.3 | 246.3 | VRP079 | 280.6 | 270.6 | VRP135 | 304.9 | 294.9 |
| VRP024 | 256.7 | 246.7 | VRP080 | 281.0 | 271.0 | VRP136 | 305.3 | 295.3 |
| VRP025 | 257.1 | 247.1 | VRP081 | 281.5 | 271.5 | VRP137 | 305.8 | 295.8 |
| VRP026 | 257.6 | 247.6 | VRP082 | 281.9 | 271.9 | VRP138 | 306.2 | 296.2 |
| VRP027 | 258.0 | 248.0 | VRP083 | 282.3 | 272.3 | VRP139 | 306.7 | 296.7 |
| VRP028 | 258.4 | 248.4 | VRP084 | 282.8 | 272.8 | VRP140 | 307.1 | 297.1 |
| VRP029 | 258.9 | 248.9 | VRP085 | 283.2 | 273.2 | VRP141 | 307.5 | 297.5 |
| VRP030 | 259.3 | 249.3 | VRP086 | 283.6 | 273.6 | VRP142 | 308.0 | 298.0 |
| VRP031 | 259.7 | 249.7 | VRP087 | 284.1 | 274.1 | VRP143 | 308.4 | 298.4 |
| VRP032 | 260.2 | 250.2 | VRP088 | 284.5 | 274.5 | VRP144 | 308.8 | 298.8 |
| VRP033 | 260.6 | 250.6 | VRP089 | 284.9 | 274.9 | VRP145 | 309.3 | 299.3 |
| VRP034 | 261.0 | 251.0 | VRP090 | 285.4 | 275.4 | VRP146 | 309.7 | 299.7 |
| VRP035 | 261.5 | 251.5 | VRP091 | 285.8 | 275.8 | VRP147 | 310.1 | 300.1 |
| VRP036 | 261.9 | 251.9 | VRP092 | 286.2 | 276.2 | VRP148 | 310.6 | 300.6 |
| VRP037 | 262.3 | 252.3 | VRP093 | 286.7 | 276.7 | VRP149 | 311.0 | 301.0 |
| VRP038 | 262.8 | 252.8 | VRP094 | 287.1 | 277.1 | VRP150 | 311.4 | 301.4 |
| VRP039 | 263.2 | 253.2 | VRP095 | 287.5 | 277.5 | VRP151 | 311.9 | 301.9 |
| VRP040 | 263.6 | 253.6 | VRP096 | 288.0 | 278.0 | VRP152 | 312.3 | 302.3 |
| VRP041 | 264.1 | 254.1 | VRP097 | 288.4 | 278.4 | VRP153 | 312.7 | 302.7 |
| VRP042 | 264.5 | 254.5 | VRP098 | 288.8 | 278.8 | VRP154 | 313.2 | 303.2 |
| VRP043 | 264.9 | 254.9 | VRP099 | 289.3 | 279.3 | VRP155 | 313.6 | 303.6 |
| VRP044 | 265.4 | 255.4 | VRP100 | 289.7 | 279.7 | VRP156 | 314.0 | 304.0 |
| VRP045 | 265.8 | 255.8 | VRP101 | 290.1 | 280.1 | VRP157 | 314.5 | 304.5 |
| VRP046 | 266.3 | 256.3 | VRP102 | 290.6 | 280.6 | VRP158 | 314.9 | 304.9 |
| VRP047 | 266.7 | 256.7 | VRP103 | 291.0 | 281.0 | VRP159 | 315.3 | 305.3 |
| VRP048 | 267.1 | 257.1 | VRP104 | 291.4 | 281.4 | VRP160 | 315.8 | 305.8 |
| VRP049 | 267.6 | 257.6 | VRP105 | 291.9 | 281.9 | VRP161 | 316.2 | 306.2 |
| VRP050 | 268.0 | 258.0 | VRP106 | 292.3 | 282.3 | VRP162 | 316.6 | 306.6 |
| VRP051 | 268.4 | 258.4 | VRP107 | 292.8 | 282.8 | VRP163 | 317.1 | 307.1 |
| VRP052 | 268.9 | 258.9 | VRP108 | 293.2 | 283.2 | VRP164 | 317.5 | 307.5 |
| VRP053 | 269.3 | 259.3 | VRP109 | 293.6 | 283.6 | VRP165 | 317.9 | 307.9 |
| | | 259.7 | VRP110 | 294.1 | 284.1 | VRP166 | 318.4 | 308.4 |
| VRP054 | 269.7 | | | | | | | |

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■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (2/2)

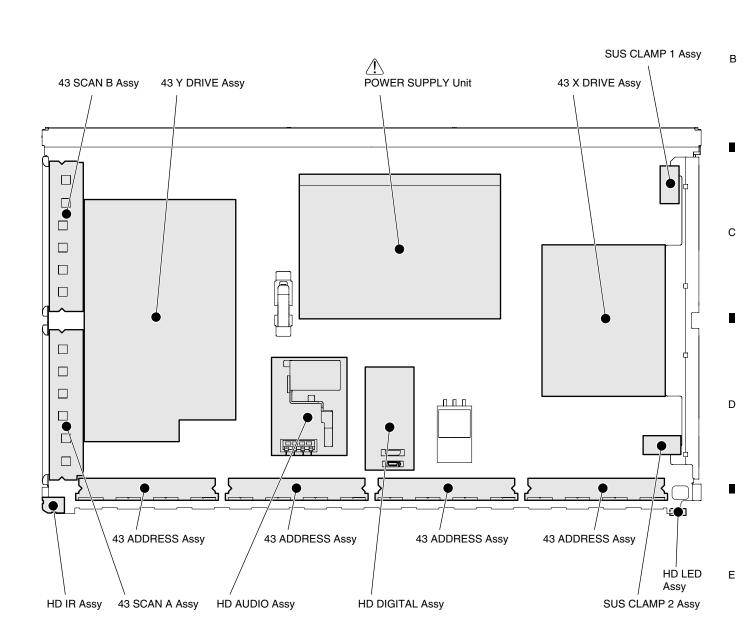
| onversion cha | | (Commands vs. V | oitage values fo | | |
|------------------|----------------|-----------------|------------------|---------------|--------|
| Command | Volta | | Command | | ge [V] |
| | | 43-inch Model | | 50-inch Model | |
| VRP168 | 319.2 | 309.2 | VRP224 | 343.6 | 333.6 |
| VRP169 | 319.7 | 309.7 | VRP225 | 344.0 | 334.0 |
| VRP170 | 320.1 | 310.1 | VRP226 | 344.4 | 334.4 |
| VRP171 | 320.6 | 310.6 | VRP227 | 344.9 | 334.9 |
| VRP172 | 321.0 | 311.0 | VRP228 | 345.3 | 335.3 |
| VRP173 | 321.4 | 311.4 | VRP229 | 345.7 | 335.7 |
| VRP174 | 321.9 | 311.9 | VRP230 | 346.2 | 336.2 |
| VRP175 | 322.3 | 312.3 | VRP231 | 346.6 | 336.6 |
| VRP176 | 322.7 | 312.7 | VRP232 | 347.1 | 337.1 |
| VRP177 | 323.2 | 313.2 | VRP233 | 347.5 | 337.5 |
| VRP178 | 323.6 | 313.6 | VRP234 | 347.9 | 337.9 |
| VRP179 | 324.0 | 314.0 | VRP235 | 348.4 | 338.4 |
| VRP180 | 324.5 | 314.5 | VRP236 | 348.8 | 338.8 |
| VRP181 | 324.9 | 314.9 | VRP237 | 349.2 | 339.2 |
| VRP182 | 325.3 | 315.3 | VRP238 | 349.7 | 339.7 |
| VRP183 | 325.8 | 315.8 | VRP239 | 350.1 | 340.1 |
| VRP184 | 326.2 | 316.2 | VRP240 | 350.5 | 340.5 |
| VRP185 | 326.6 | 316.6 | VRP241 | 351.0 | 341.0 |
| VRP186 | 327.1 | 317.1 | VRP242 | 351.4 | 341.4 |
| VRP187 | 327.5 | 317.5 | VRP243 | 351.8 | 341.8 |
| VRP188 | 327.9 | 317.9 | VRP244 | 352.3 | 342.3 |
| VRP189 | 328.4 | 318.4 | VRP245 | 352.7 | 342.7 |
| VRP190 | 328.8 | 318.8 | VRP246 | 353.1 | 343.1 |
| VRP191 | 329.2 | 319.2 | VRP247 | 353.6 | 343.6 |
| VRP192 | 329.7 | 319.7 | VRP248 | 354.0 | 344.0 |
| VRP193 | 330.1 | 320.1 | VRP249 | 354.4 | 344.4 |
| VRP194 | 330.5 | 320.5 | VRP250 | 354.9 | 344.9 |
| VRP195 | 331.0 | 321.0 | VRP251 | 355.3 | 345.3 |
| VRP196 | 331.4 | 321.4 | VRP252 | 355.7 | 345.7 |
| VRP197 | 331.8 | 321.8 | VRP253 | 356.2 | 346.2 |
| VRP198 | 332.3 | 322.3 | VRP254 | 356.6 | 346.6 |
| VRP199 | 332.7 | 322.7 | VRP255 | 357.0 | 347.0 |
| VRP200 | 333.2 | 323.2 | | | |
| VRP201 | 333.6 | 323.6 | | | |
| VRP202 | 334.0 | 324.0 | | | |
| VRP203 | 334.5 | 324.5 | | | |
| VRP204 | 334.9 | 324.9 | | | |
| VRP205 | 335.3 | 325.3 | | | |
| VRP206 | 335.8 | 325.8 | | | |
| VRP207 | 336.2 | 326.2 | | | |
| VRP208 | 336.6 | 326.6 | | | |
| VRP209 | 337.1 | 327.1 | | | |
| VRP210 | 337.5 | 327.5 | | | |
| VRP211 | 337.9 | 327.9 | | | |
| VRP212 | 338.4 | 328.4 | | | |
| VRP213 | 338.8 | 328.8 329.2 | | | |
| VRP214 | 339.2 | | | | |
| VRP215 | 339.7 | 329.7 | | | |
| VRP216 | 340.1 | 330.1 | | | |
| VRP217 VRP218 | 340.5 | 330.5 | | | |
| VRP218 VRP219 | 341.0 | 331.0 | | | |
| | 341.4 | 331.4 | | | |
| VRP220 | 341.8 | 331.8 | | | |
| V/RP221 | 3400 | י ניניני | | | |
| VRP221 VRP222 | 342.3 342.7 | 332.3 332.7 | | | |

PDP-436PE

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

• Operation statuses indicated by LEDs

| Status | | | | LED Pattern |
|----------------------------|---|---|-------------|-------------------------------------|
| Standby | 1 | Lit in Red | Blue Red | |
| Power ON | 2 | Lit in Blue | Blue Red | |
| AC Power OFF of one side | 3 | Red flashes (1000ms) | Blue Red | 1000ms |
| System cable disconnection | 4 | Red and blue flash (1000ms) | Blue Red | 1000ms 1000ms |
| Power-down | 5 | Red flashes (500+2500ms) | | Once Twice n times 2.5s Once |
| Shutdown | 6 | Blue flashes (500+2500ms) | Blue | 500ms Once Twice on times 2.5s Once |
| No backup copy | 7 | Lit in Red and blue flashes (200ms) | Blue Red | 200ms |

: Lit in Red LED
: Lit in Blue LED

• PD (power-down) count

| 1 | Not used |
|----|--------------------------|
| 2 | POWER SUPPLY Unit |
| 3 | SCAN Assy |
| 4 | 5V power supply for SCAN |
| 5 | Y-DRIVE (Not used) |
| 6 | DCDC for Y drive |
| 7 | Y-SUS |
| 8 | ADDRESS Assy |
| 9 | X-DRIVE |
| 10 | DCDC for X drive |
| 11 | X-SUS |
| 12 | Not used |
| 13 | Sequence drive stop |
| 14 | Not used |
| 15 | UNKNOWN |

• SD (shut down) count

| 1 | SEQUENCE PROCESSOR (SQ_IC) |
|---|----------------------------|
| 2 | MDU-IIC |
| 3 | RST2 abnormality |
| 4 | Panel high temperature |
| 5 | Speaker short-circuit * |

* When a jumper (J105) between the HD AUDIO Assy and the POWER SUPPLY Unit is disconnected, the SD LED flashes five times in this manner.

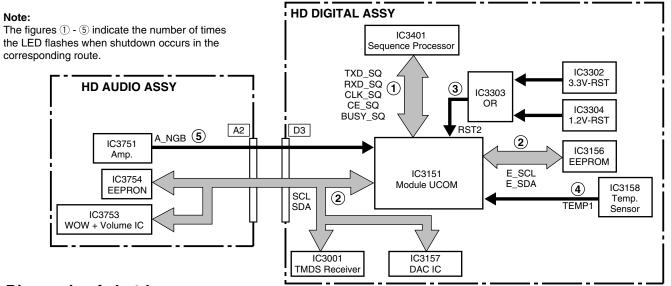
Note:

- When a shutdown occurs, a warning will be issued by the Media Receiver and displayed, then the power will be shut off.
- When a shutdown or power-down occurs on the Panel side, the Media Receiver will enter Standby mode (the red LED will light).

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• Diagnosis of shutdown

| Number of flashes | SD Circuit in Operation | Defective Assy | Reason for Shutdown | Point to be Checked | Possible Defective Part | Remarks | |
|-------------------|---|----------------|--|-------------------------------------|----------------------------|---|---|
| | | | Communication failure of IC3401 | SQ ASIC BLOCK, PANEL FLASH BLOCK | IC3401, IC3301 | | |
| 1 time | Communication failure of the driving processor | HD DIGITAL | Writing failure of IC3401 | | | Check if version data can be read, using the "GS1" command, after the power is turned on again. | |
| | | HD DIGITAL | Communication failure of the EEPROM (for | MODULE UCOM BLOCK | IC3156, IC3157 | | |
| | | | retaining 4-Kbyte of data) | TMDS BLOCK | IC3001 | | |
| 2 times | Communication failure of the IIC line (Check the SD subcategory on | HD AUDIO | Communication failure of the EEPROM (2-kbyte : for backup) | AUDIO AMP BLOCK | IC3754 | | |
| | the Factory Menu.) | | HD AUDIO | Disconnection of connectors | A2 - D3 | | Check if the connectors are disconnected or are not connected securely. |
| | | | Defective volume IC | HD AUDIO Assy | IC3753 | | |
| | | driving | Defective DC-DC converter | DIGITAL DD CON BLOCK | U3601 | Check if 3.3-V and 1.2-V power supplies are activated. | |
| 3 times | Power failure of | | Defective RST IC | PANEL FLASH BLOCK | IC3302 - IC3304 | | |
| | processor (RST2) | | Defective IC3401 | SQ ASIC BLOCK | IC3401 | | |
| | , , | POWER SUPPLY | The 8-V power supply is not activated. | | | Check if the 8-V power is supplied at Pin 1 of the D11 connector. | |
| 4 times | Abnormally high temperature of the panel | | Abnormally high temperature of the panel | Ambient temperature | | The Panel will be shut down if the sensor detects temperature of 75°C or higher (for the PDP-436P/-506P). | |
| | | | Speakers' grounding fault | Speaker terminals | | Check if the speaker cables are in contact with the chassis, etc. | |
| 5 times | Audio failure | HD AUDIO | Defective AMP IC | HD AUDIO Assy | IC3751 | | |
| | | HD AUDIO | Disconnection of connectors | A1 - P5 | | Check if the connectors are disconnected or are not connected securely. | |

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| Defective PCB Assy | Reason for PD (Power-down) | Point to be Checked | Possible Defective Part | Remarks |
|---|--|--|---|---|
| POWER SUPPLY | | | | |
| 50 (43) SCAN A, B | | SCAN IC | SCAN IC | VH-GNDH short-circuit |
| | VH UVP | Y SUS BLOCK | IC2252, IC2253 | VSUS-SUSOUT, SUSOUT-SUSGND short- circuit |
| 30 (43) T URIVE | | VH DC/DC | IC2502, L2501 | |
| | Disconnection of cable detected | CN2001, CN2350 | | |
| 50 (43) X DRIVE | VHUVP | IC1202 | IC1202 | VSUS-SUSOUT, SUSOUT-SUSGND short- orcuit |
| 0 4 140 00 (07) | Disconnection of cable detected | CN2401, CN2402 | | |
| 30 (43) 30AN A, B | | SCAN IC | SCAN IC | |
| T. 100 X (01) 01 | IC5V UVP | IC5V DC/DC | Q2605, R2647 | |
| 30 (43) 1 DAIVE | | Y SUS BLOCK | R2352 | |
| | an i saon | VOFS DC/DC | Q2606, R2619, R2620 | |
| 50 (43) Y DRIVE | L > 0 0 L O > | Y SUS BLOCK | IC2252, IC2253, Q2280, Q2281 | MSKS-SUSOUT short-circuit |
| | Vprst UVP | Vprst Regulator | Q2531, Q2532, IC2535 | |
| TV100 X X X X X X X X X X X X X X X X X X | Power-down caused by detection of middle-point | Y RESONANCE BLOCK | IC2101 | |
| 30 (43) T DRIVE | voltage | Y SUS BLOCK | Q2221 | |
| 0 | Address power-down | ADDRESS RESONANCE BLOCK | D1634 | V+ADR-GND_ADR short-circuit |
| 50 (43) ADDRESS | Disconnection of cable detected | CN1501, CN3501-CN3504 | | |
| 50 (43) X DRIVE | Disconnection of cable detected | CN1001 | | |
| | Disconnection of cable detected | CN1201 | | |
| 50 (43) X DRIVE | Q/I NQ/ | VRN DC/DC | Q1323, R1332, R1333 | |
| | | X SUS BLOCK | R1204, Q1272 | |
| 50 (43) X DRIVE | Power-down caused by detection of middle-point voltage | X RESONANCE BLOCK | IC1101 | |
| Number Operation 2 Powers 3 SCAN 4 SCN-5V 6 Y-DCDC 6 Y-DCDC 9 XDRIVE 9 XDRIVE 10 X-DCDC | | Defective PCB AssyReason (Power- (Power- (Power- (Power- (Power- (Power- (Power-down card of 43) Y DRIVEVH UVP50 (43) Y DRIVEVH UVP50 (43) Y DRIVEVH UVP50 (43) Y DRIVEVOFS UVP50 (43) Y DRIVEVorst UVP50 (43) Y DRIVEVorst UVP50 (43) Y DRIVEPower-down card detection of mid voltage50 (43) Y DRIVEDisconnection of | Power Supply FOWER SUPPLY 50 (43) SCAN A, B 50 (43) Y DRIVE 50 (43) X DRIVE | Defective PCB Assy Reason for PD (Power-down) Point to be Checked (Power-down) POWER SUPPLY SCAN IC 9 50 (43) SCAN A, B VH UVP Y SUS BLOCK 50 (43) Y DRIVE VH UVP Y SUS BLOCK 50 (43) Y DRIVE VH UVP IC1202 50 (43) Y DRIVE VH UVP IC1202 50 (43) Y DRIVE VOFS UVP X SUS BLOCK 50 (43) Y DRIVE VOFS UVP Y SUS BLOCK 50 (43) Y DRIVE VOFS UVP Y SUS BLOCK 50 (43) Y DRIVE VOFS UVP Y SUS BLOCK 50 (43) Y DRIVE Power-down caused by detected Y SUS BLOCK 50 (43) Y DRIVE Power-down caused by detected Y SUS BLOCK 50 (43) Y DRIVE Disconnection of cable detected CN1501, CN3504 50 (43) X DRIVE Disconnection of cable detected CN1501, CN3504 50 (43) X DRIVE Disconnection of cable detected CN1501, CN3504 50 (43) X DRIVE Disconnection of cable detected CN1001 50 (43) X DRIVE Power-down caused by detected X RESONANCE BLOCK Address power-down caused b |

OVP: OVER VOLTAGE PROTECT UVP: UNDER VOLTAGE PROTECT

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PDP-436PE

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■ Top screen of the Factory Menu for the main unit

MR INFORMATION

< MUTE > key

FUNC. CHECK

< MUTE > key

COMMON ADJ.

< MUTE > key

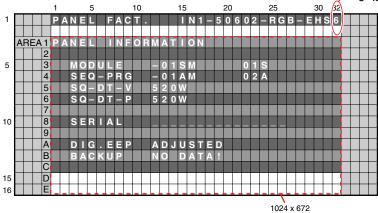
PANEL FACTORY

< SET > key



Top screen of the Panel Factory

If a Panel of Generation 6 is connected, "6" is indicated here.



Note: With this model, the structure of Factory mode has been changed, and all items related to the Panel are gathered into PANEL FACTORY mode.

Note: On-screen displays in Factory mode are indicated in white characters on a green background for the PDP-506HD/436HD and subsequent models.

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■ Configuration of Panel Factory mode

| M- | Submode Name | Adicatable Barras | D and a |
|------|--------------------|--|-----------------------|
| No. | Submode Items | Adjustable Range | Remarks |
| 1 | PANEL INFORMATION | | |
| 2 | PANEL WORKS | | |
| 3 | POWER DOWN | | |
| 4 | SHUT DOWN | | |
| 5 | PANEL-1 ADJ (+) | | |
| 5-1 | X-SUS B <=> | 120 to 136 | Equivalent to XSB |
| 5-2 | Y-SUS B <=> | 120 to 136 | Equivalent to YSB |
| 5-3 | Y-SUSTAIL T <=> | 120 to 136 | Equivalent to YTG |
| 5-4 | Y-SUSTAIL W <=> | 120 to 136 | Equivalent to YTW |
| 5-5 | XY-RST W <=> | 120 to 136 | Equivalent to RSW |
| 5-6 | VOL SUS <=> | 000 to 255 | Equivalent to VSU |
| 5-7 | VOL OFFSET <=> | 000 to 255 | Equivalent to VOF |
| 5-8 | VOL RST P <=> | 000 to 255 | Equivalent to VRP |
| 5-9 | SUS FREQ. <=> | MODE1 to MODE8 | Equivalent to SFR |
| 6 | PANEL-2 ADJ (+) | | |
| 6-1 | R-HIGH <=> | 000 to 511 | Equivalent to PRH |
| 6-2 | G-HIGH <=> | 000 to 511 | Equivalent to PGH |
| 6-3 | B-HIGH <=> | 000 to 511 | Equivalent to PBH |
| 6-4 | R-LOW <=> | 000 to 999 | Equivalent to PRL |
| 6-5 | G-LOW <=> | 000 to 999 | Equivalent to PGL |
| 6-6 | B-LOW <=> | 000 to 999 | Equivalent to PBL |
| 6-7 | ABL <=> | 000 to 255 | Equivalent to ABL |
| 7 | PANEL REVISE | | |
| 7-1 | R-LEVEL <=> | LV-0 to LV-7 | Equivalent to RRL |
| 7-2 | G-LEVEL <=> | LV-0 to LV-7 | Equivalent to RGL |
| 7-3 | B-LEVEL <=> | LV-0 to LV-7 | Equivalent to RBL |
| 8 | ETC (+) | | |
| 8-1 | BACKUP DATA <=> | NO OPRT<=>TRANSFER or ERR | Equivalent to BCP |
| 8-2 | DIGITAL EEPROM <=> | NO OPRT<=>DELETE/REPAIR | Equivalent to FAJ/UAJ |
| 8-3 | PD INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CPD |
| 8-4 | SD INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CSD |
| 8-5 | HR-MTR INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CHM |
| 8-6 | PM/B1-B5 <=> | NO OPRT <=>CLEAR | Equivalent to CPM |
| 8-7 | P-COUNT INFO. <=> | NO OPRT <=>CLEAR | Equivalent to CPC |
| 9 | MASK SETUP (+) | | |
| 9-1 | MASK OFF | | Equivalent to MKS+S00 |
| 9-2 | SGL MASK 01 <=> | | Equivalent to MKS+S01 |
| 9-3 | SGL MASK 02 <=> | | Equivalent to MKS+S02 |
| | ••• | <pre><=>V48<=>V50<=>V60<=>P60<=>P70<=>V72<=>V75<=> (Select each sequence.)</pre> | ••• |
| 9-62 | CMB MASK 08 <=> | - (Octobe Cacil Sequence.) | Equivalent to MKC+S08 |
| 9-63 | CMB MASK 09 <=> | 1 | Equivalent to MKC+S09 |

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Ε

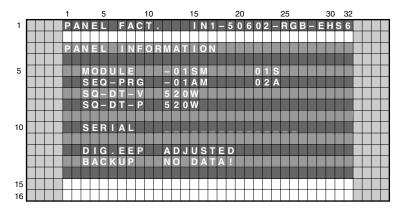
В

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■ Details on submodes related to the panel

The GUI display examples here are those displayed when the main unit is used with the 50-inch model.

1. PANEL INFORMATION



■ Key operation

<DOWN> : Shifting to PANEL WORKS
<UP> : Shifting to MASK SETUP (+)

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

В

D

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F

The version of the microcomputer of the panel, serial number of the main unit, adjustment values of the main unit, and backup status are displayed.

2. PANEL WORKS

- The data from the pulse meter for each block from PM-B1 to PM-B5 are indicated. The values stored in the EEPROM (3 bytes each) are each converted into a decimal number, and the higher-order 8 digits are displayed (that means that the lowest-order digit represents millions).
- TEMP1: Indicates the temperature of the panel. By your pressing the L or R key, the temperature value can be updated.

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7

3. POWER DOWN

В

1 5 10 15 20 25 30 32

1 PANEL FACT. IN1-50602-RGB-EHS6 IN IN1-50602-RGB-IN1-50602-RGB

■ Key operation

<DOWN> : Shifting to SHUTDOWN
<UP> : Shifting to PANEL WORKS

<SEL> : MASK ON/OFF

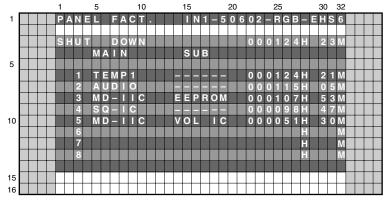
<L/R> : Updating displayed information

• Basically, data acquired with the command QPD are displayed in the columns "1ST" and "2ND, with the values from the hour meter when the power-down occurred.

<Causes of power-down and corresponding OSD indications>

| <u> </u> | | | |
|---------------------|----------------|-------------------------|----------------|
| Cause of power-down | OSD Indication | Cause of power-down | OSD Indication |
| POWER SUPPLY Unit | P-PWR | ADDRESS Assy | ADRS |
| SCAN Assy | SCAN | X-DRIVE Assy | X-DRV |
| 5V power for SCAN | SCN5V | DCDC for X drive | X-DCDC |
| Not used | | X-SUS | X-SUS |
| DCDC for Y drive | Y-DCDC | Sequence drive stopped | SQ-NON |
| Y-SUS | Y-SUS | Specification inability | UNKNOW |

4. SHUT DOWN



■ Key operation

<DOWN> : Shifting to PANEL-2ADJ (+) <UP> : Shifting to POWER DOWN

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

• Basically, data acquired with the command QSD (for MDU-IIC, subcategory data are also displayed) are displayed with the values from the hour meter when the shutdown occurred.

<Causes of shutdown and corresponding OSD indications>

| Todacoo or orialaonii aria | on coponium g coe manda. |
|-------------------------------|----------------------------|
| Cause of shutdown (main) | OSD Indication |
| SEQUENCE PROCESSOR | SQ-IC |
| MDU-IIC | MDU-IIC (with subcategory) |
| Abnormality in RST2 | RST2 |
| Panel having high temperature | TEMP1 |
| Short-circuited speaker | AUDIO |

| Cause of shutdown (sub) | OSD Indication | |
|-------------------------|------------------------|--|
| EEPROM | EEPROM (IC3156) | |
| BACKUP | BACKUP (IC3754) | |
| DAC | DAC (IC3302 to IC3304) | |
| Audio IC | VOL-IC (IC3158) | |
| DVI | DVI | |

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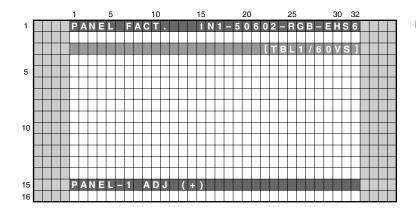
Ε

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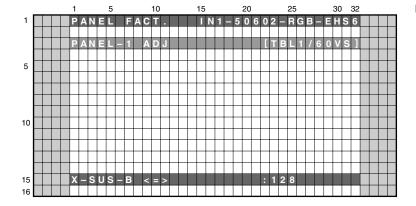
5. PANEL-1 ADJ



■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+) <UP> : Shifting to POWER DOWN <SET> : Shifting to the next nested layer

<SEL> : MASK ON/OFF



■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

<SEL> : MASK ON/OFF

<Drive-sequence indications and indications for the ABL/WB tables> (The OSD indications are displayed at the right part of the third line for submode PANEL-1 ADJ and subsequent submodes.)

| Type of WB/ABL Tables | | Type of Drive Sequences | | | | | |
|-----------------------|--|-------------------------|----------------------|-------------------|--|------|--------------------------------|
| | | Standard Video/MASK ON | | Nonstandard Video | | PC | |
| TBL1 | | 48VS | | | | 60PS | Not used for consumer products |
| TBL2 | | 50VS | | 50VN | | 70PS | |
| TBL3 | | 60VS | | 60VN | | | |
| TBL4 | | 72VS | Only Mask indication | | | | |
| | | 75VS | | 75VN | | | |

<Lower-layer items of PANEL-1 ADJ>

5

| No. | Items | Adjustment/Setting Value | Remarks |
|-----|-----------------|--------------------------|-------------------|
| 1 | X-SUS B <=> | 120 to 136 | Equivalent to XSB |
| 2 | Y-SUS B <=> | 120 to 136 | Equivalent to YSB |
| 3 | Y-SUSTAIL T <=> | 120 to 136 | Equivalent to YTG |
| 4 | Y-SUSTAIL W <=> | 120 to 136 | Equivalent to YTW |
| 5 | XY-RST W <=> | 120 to 136 | Equivalent to RSW |
| 6 | VOL SUS <=> | 000 to 255 | Equivalent to VSU |
| 7 | VOL OFFSET <=> | 000 to 255 | Equivalent to VOF |
| 8 | VOL RST P <=> | 000 to 255 | Equivalent to VRP |
| 9 | SUS FREQ. <=> | <=>MODE1 to MODE8<=> | Equivalent to SFR |

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В

С

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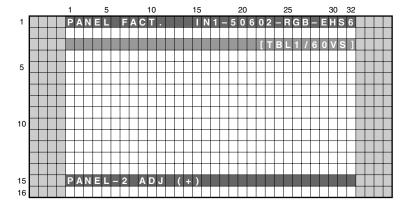
Ε

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6. PANEL-2 ADJ

В



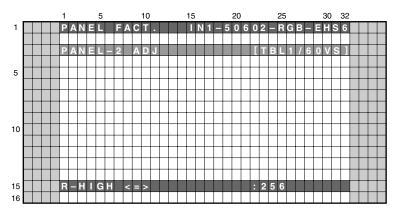
■ Key operation

3

<DOWN> : Shifting to PANEL REVISE <UP> : Shifting to PANEL-1 ADJ (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

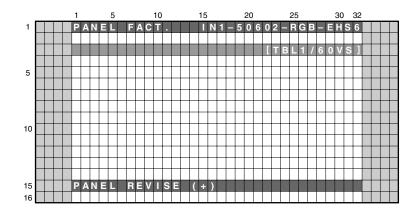
<SEL> : MASK ON/OFF

<Lower-layer items of PANEL-2 ADJ>

| No. | Items | Adjustment/Setting Value | Remarks |
|-----|------------|--------------------------|-------------------|
| 1 | R-HIGH <=> | 000 to 511 | Equivalent to PRH |
| 2 | G-HIGH <=> | 000 to 511 | Equivalent to PGH |
| 3 | B-HIGH <=> | 000 to 511 | Equivalent to PBH |
| 4 | R-LOW <=> | 000 to 999 | Equivalent to PRL |
| 5 | G-LOW <=> | 000 to 999 | Equivalent to PGL |
| 6 | B-LOW <=> | 000 to 999 | Equivalent to PBL |
| 7 | ABL <=> | 000 to 255 | Equivalent to ABL |

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7. PANEL REVISE



■ Key operation

<DOWN> : Shifting to ETC.(+)

<UP> : Shifting to PANEL-2 ADJ (+)

<SEL> : MASK ON/OFF

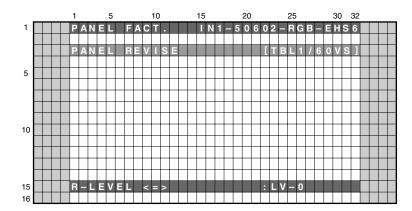
<SET> : Shifting to the next nested layer

В

С

D

Ε



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

<Lower-layer items of PANEL REVISE>

5

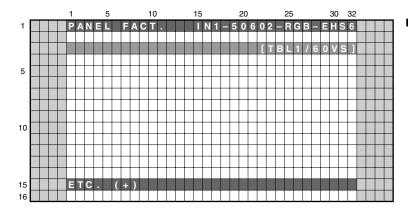
| No. | Items | Adjustment/Setting Value | Remarks |
|-----|-------------|--------------------------|-------------------|
| 1 | R-LEVEL <=> | <=>LV-0 to LV-7<=> | Equivalent to RRL |
| 2 | G-LEVEL <=> | <=>LV-0 to LV-7<=> | Equivalent to RGL |
| 3 | B-LEVEL <=> | <=>LV-0 to LV-7<=> | Equivalent to RBL |

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8. ETC.

В

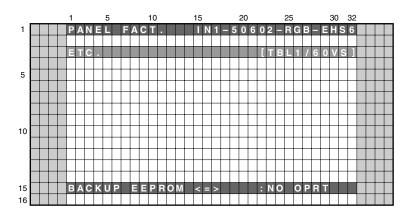


■ Key operation

<DOWN> : Shifting to MASK SETUP (+)
<UP> : Shifting to PANEL REVISE (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

<Lower-layer items of ETC.>

| No. | Items | Adjustment/Setting Value | Remarks | | | |
|------|---|-------------------------------|---|--|--|--|
| 1 BA | BACKUP DATA <=> | <=>NO OPRT<=>TRANSFER<=> | "ERR" is indicated when no data are in the backup EEPROM. To activate the option to select TRANSFER, press the SET key about 5 seconds. (There is a situation resting more than 5 seconds.) | | | |
| 2 | DIGITAL EEPROM <=> | <=>NO OPRT<=>REPAIR/DELETE<=> | "DELETE" is indicated when the main unit has been already adjusted. To activate the option to select REPAIR/DELETE, press the SET key about 5 seconds. (There is a situation resting more than 5 seconds.) | | | |
| 3 | DIGITAL EEPROM <=> <= PD INFO. <=> <= SD INFO. <=> <= HR-MTR INFO. <=> <= PM/B1-B5 <=> <= | <=>NO OPRT<=>CLEAR<=> | | | | |
| 4 | SD INFO. <=> | <=>NO OPRT<=>CLEAR<=> | To activate the option to select CLEAR, repeatedly | | | |
| 5 | HR-MTR INFO. <=> | <=>NO OPRT<=>CLEAR<=> | press the SET key about 5 seconds. | | | |
| 6 | PM/B1-B5 <=> | <=>NO OPRT<=>CLEAR<=> | (There is a situation resting more than 5 seconds.) | | | |
| 7 | P-COUNT INFO. <=> | <=>NO OPRT<=>CLEAR<=> | | | | |

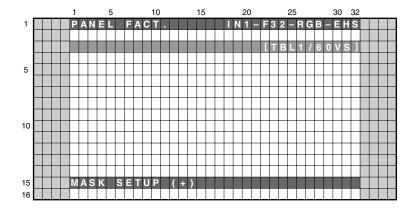
- "NO OPRT" is selected when this submode is entered (to avoid accidental misoperation).
- When each item is set, the process starts then the unit shifts to the upper layer. (When NO OPRT is determined, the unit will shift to the upper layer without doing anything.)
- When data are set to be backed up, if the digital EEPROM has not been adjusted, do the operation of LED pattern No. 7.

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3

9. MASK SETUP

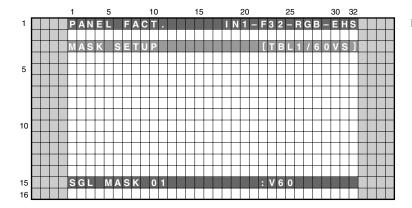


■ Key operation

<DOWN> : Shifting to PANEL INFORMATION

<UP> : Shifting to ETC. (+) <SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK : Shifting to the previous MASK <UP> <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the setting value

and shifting to the upper layer

: MASK ON/OFF <SEL>

<Lower-layer items of MASK SETUP>

| No. | Items | Adjustment/Setting Value | Remarks | | |
|-----|-----------------|---|-----------------------|--|--|
| 1 | MASK OFF | | Equivalent to MKS+S00 | | |
| 2 | SGL MASK 01 <=> | | Equivalent to MKS+S01 | | |
| 3 | SGL MASK 02 <=> | <=>48V<=>50V<=>60V<=> 60P<=>70P<=>72V<=>75V<=> | Equivalent to MKS+S02 | | |
| 4 | ••• | | ••• | | |
| 5 | CMB MASK 09 <=> | | Equivalent to MKC+S08 | | |
| 6 | CMB MASK 10 <=> | | Equivalent to MKC+S09 | | |

• With the keys <LEFT> and <RIGHT>, the Panel drive sequence in the MASK indication is changed in the following way: <=>48V<=>50V<=>60V<=>72V<=>75V<=>60P<=>70P<=>

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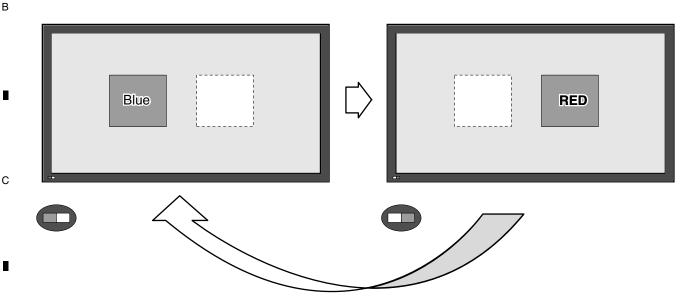
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7.1.5 OPERATION WHEN THE MEDIA RECEIVER IS NOT CONNECTED

As the connection conditions of the system cables (MDR cable, DVI cable) are usually detected, if no connection, such as cable disconnection, is detected, a warning indication (alternate flashing of the red and blue areas) is displayed on the mask screen, and the red and green LEDs flash alternately. Then after about 30 seconds, the power is automatically turned off.



Alternate flashing at intervals of about 1 second

To operate the panel without the Media Receiver, there are the following two ways:

1. Operation-without-the-Media-Receiver mode

Input the "SYS S00" RS232C command. The status of the LEDs changes to that in normal operation mode.

Note: Turning the AC switch to OFF then ON also maintains this mode. However, once the unit is connected with the Media Receiver using the System cable, this mode is automatically canceled.

2. DVI mode

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Turn the unit on while DVI SG signals are being input with only the DVI connecter connected. After a warning is displayed for about 5 seconds, the unit is ready to display the screen of the input signal. (Blue LED lit)

Notes: • Although the output from XGA (43 inch) and WXGA (50 inch) can be input to the unit, this is not a mode open to general users. (With some signals, errors such as power-down may occur.)

7.1.6 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: To prevent a power-down from being generated, operation of only the digital-signal processing and audio circuits are enabled, and power is not supplied to the panel driving system (large-signal system).

Usages: 1. In a case where a check is required of signals' being correctly output to the driving systems during a repair, etc.

- 2. In a case where diagnosis is required for judging whether the power to the large-signal system or small-signal system has been down when a power-down occurred
- Methods: 1. Short-circuit the points (see Fig. 4 below) on the face and on the reverse side of the HD DIGITAL Assy.
 - 2. Issue the "DRV S00" RS-232C command. (Command for turning the function off: DRV S01)

Notes: • When the power to the large-signal system is off, as the PD signal is muted, power-downs other than PS_PD are not activated.

- As soon as the clips are removed while the power to the large-signal system is off, a power-down will occur. Be sure to turn the power off before removing the clips.
- While this function is activated with RS-232C commands, it is possible to issue "DRV S01" (for turning the function off) while the power is on. However, as it may damage the unit, turn the power off before issuing the "DRV S01" command.
- Although the "DRV S00/S01" RS-232C commands are valid during Standby mode, once the main power is turned off, the unit will return to "DRV S01."

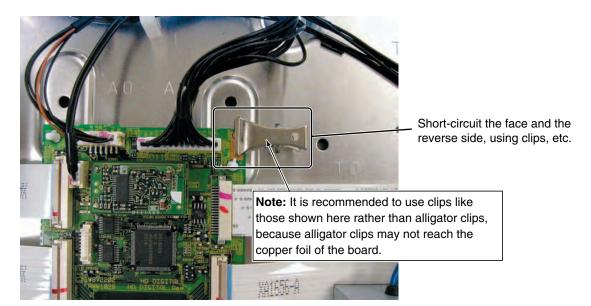


Fig. 4 Position of DRIVE OFF

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Outline

Adjustment data set at the factory are stored in the EEPROM (IC****/4K) on the HD DIGITAL Assy. Those adjustment data are automatically backed up in the EEPROM (backup EEPROM: IC****) on the HD AUDIO Assy. Therefore, even if the HD DIGITAL Assy is replaced, the adjustment data can be restored by copying the backup data, which enables you to omit newly performing adjustments on the main unit.

Data to be backed up

- Voltage margin adjustment values
- Data on the hour meter
- Upper limit of power-adjustment value
- Data on the pulse meter
- Panel WB adjustment values
- Serial number
- Drive waveform adjustment values
- Data of the P-ON counter
- PD/SD histories

How to copy the backup data

1. When the HD DIGITAL Assy is replaced with that for service (normal servicing) (In a case where no data are on the DIG. EEP, and backup data have been adjusted)

Command: "BCP" (Effective during FAY) Factory Menu

PANEL INFORMATION ▼ (down) ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT >> (right)

- · After the HD DIGITAL Assy is replaced with that for service, check that "DIG. EEP: NO DATA!" is displayed on the Panel Information screen of the Factory Menu.
- If this command is not executed, the red LED lights, and the blue LED flashes. to warn you that copying of the backup adjustment data for the main unit failed.
- If both the HD DIGITAL Assy and HD AUDIO Assy are to be replaced, first replace the HD AUDIO Assy and set the unit to Standby mode. Then replace the HD DIGITAL Assy.

- 2. In a case where a HD DIGITAL Assy that was mounted on another unit is to be reused as a service part.
- Command: "FAJ" (Effective during FAY)

Factory Menu: PANEL FACT => ETC => DIGITAL EEPROM: DELETE

PANEL INFORMATION ▼ (down) ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT ▼ (down) DIGITAL EEPROM: NO OPRT >> (right)

DIGITAL EEPROM: REPAIR [set] (Press and hold for 5 seconds.)

BACKUP DATA: TRANSFER [set] (Press and hold for 5 seconds.)

> • If the HD DIGITAL Assy of Unit 1 is mounted to be reused in Unit 2 to be repaired, and Unit 2 enters Standby mode, the adjustment data and histories stored in Unit 1 are erased, and those of Unit 2 are copied. Once overwritten, the original data will not be restored. After the Assy is replaced, be sure to enter Factory mode, using the remote control unit for servicing, and perform the procedures described herein. Or, before mounting an Assy to be reused as a service Assy, perform these procedures then mount it on the product to be repaired.

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3. In a case where the HD DIGITAL Assy is replaced with one for servicing because of a defective EEPROM on the original Assy and manual adjustments are to be performed

(In a case where no data are stored in the HD DIGITAL Assy or as backup, and the values that have been manually adjusted on Service Menu are to be applied as adjustment data for the main unit)

Command: "UAJ" (Effective during FAY) Factory Menu

5

PANEL INFORMATION

▼ (down)

▼ (down)

ETC. (+)

[set]

BACKUP DATA: NO OPRT

▼ (down)

DIGITAL EEPROM: NO OPRT

>> (right)

DIGITAL EEPROM: REPAIR

[set] (Press and hold for 5 seconds.)

5

• If the HD DIGITAL Assy with which adjustment data for the main unit have been copied is mounted, the above procedures are not necessary after manual adjustment.

(The indication "DIGITAL EEPROM: REPAIR" will not be displayed.)

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■ Clearing data on various histories when the HD DIGITAL Assy is replaced

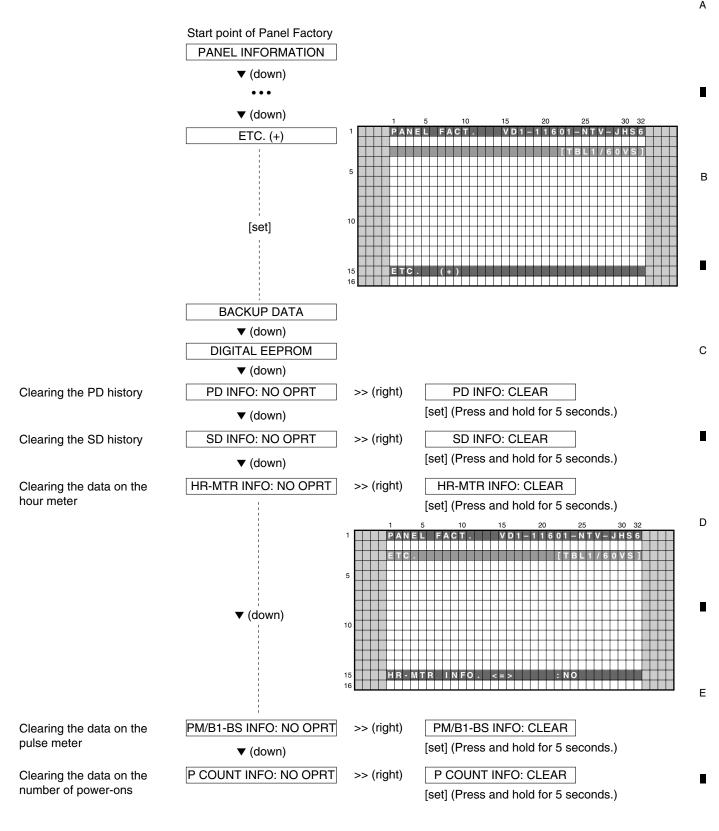
Other than adjustment data for the main unit, data to be backed up include the accumulated power-on time and a history of defective parts, which are data updated and stored in memory. Among those data, some are required to be cleared when the HD DIGITAL Assy is replaced for servicing, as shown below:

| | | Т | RS-232C | | | |
|---------------------------------|---|---|---------------------------|----------------------|---------|--|
| Item | Backed-up data | Panel Replacement of the power-supply block | | Others | command | |
| Hour meter | Accumulated display | To be cleared | Not to be cleared | Not to be cleared | СНМ | |
| SD history | Point where an SD occurred and data on the hour meter | To be cleared | Not to be cleared | Not to be cleared | CSD | |
| PD history | Point where a PD occurred and data on the hour meter | To be cleared | Not to be cleared | Not to be cleared | CPD | |
| Pulse meter | Accumulated number of pulses of the Panel (5 blocks) | To be cleared (essential) | Not to be cleared | Not to be cleared | СРМ | |
| Accumulated number of power-ons | Accumulated number of RELAY_ONs | Not to be cleared | To be cleared (essential) | Not to be cleared | CPC | |

- 1: With the PDP-506P/436P and subsequent models, because various compensation functions use pulse-meter data for calculating compensation values, if related Assys are replaced, data on various histories must be cleared.
- 2: To clear data using RS-232C commands, after entering Factory mode (by sending FAY or PFY), issue a corresponding command. Otherwise, the command will not be executed.

■ How to clear the history for each item on the Factory Menu

5



С

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

1 Rear Case (436)

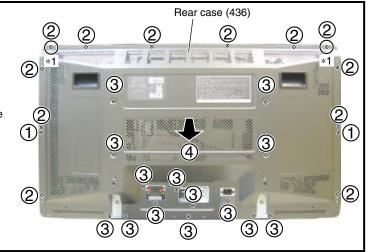
- (1) Remove the two screws.
 - (2) Remove the tweleve screws.
 - Remove the fourteen screws.

Note *1:

When reassembling, first secure the screws for these holes to position the rear case (436) correctly.

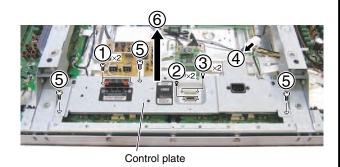
The hole of a left side, the screw tighten the hole of the right side next first.

(4) Remove the rear case (436).

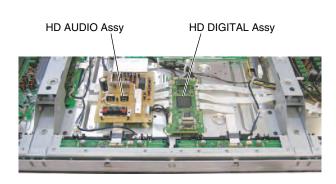


2 Control Plate Section

- (1) Remove the two screws.
- (2) Remove the two screws.
 - 3 Remove the two hexagon head screws.
 - (4) Disconnect the connector.
 - (5) Remove the three screws.
 - (6) Remove the control plate.



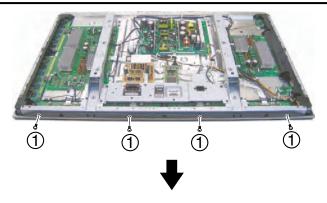




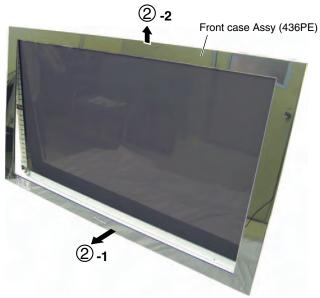
Ε



1 Remove the four screw rivets.



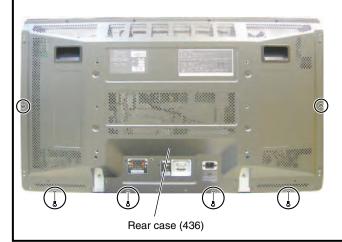
(2) Remove the front case Assy (436PE).



When only the front case assy (436PE) is to be removed

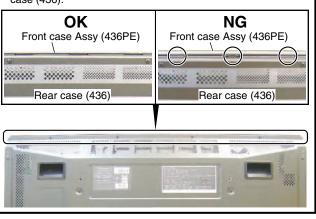
The front case assy (436PE) can be removed without removing the rear case (436) beforehand.

Remove the two screws and four screw rivets shown below:



Note when the front case assy (436PE) is to be reattached

- ① Hook the upper part of the Front Case Assy (436PE) on the upper part of the Front Panel, leaving a fist-sized gap between the bottom and the lower part of the Front Case Assy.
- ② Push the couplers of the Front Case Assy (436PE) into the rear case (436).
- 3 Make sure that all the couplers have been pushed into the rear case (436).



1

PDP-436PE 7

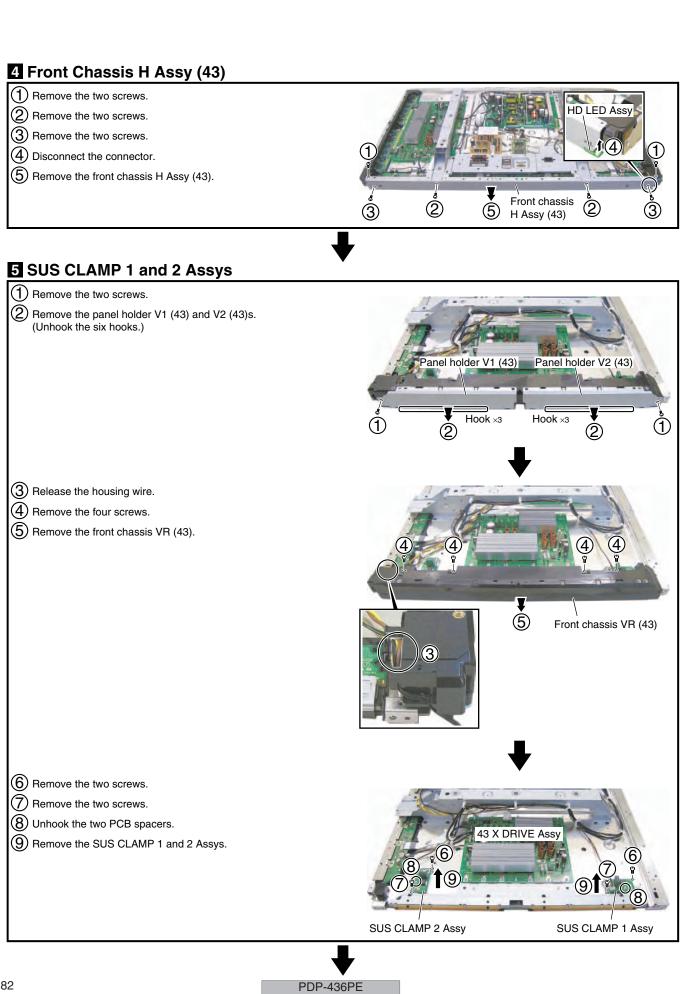
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5



В

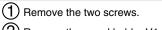
С

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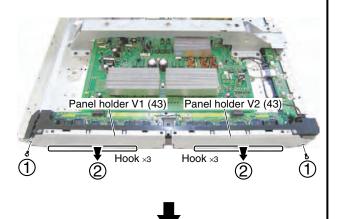
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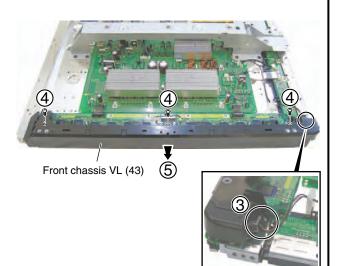
6 43 SCAN A and B Assys



Remove the panel holder V1 (43) and V2 (43)s. (Unhook the six hooks.)

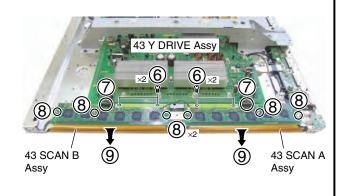


- Release the housing wire.
- $\stackrel{\textstyle ullet}{4}$ Remove the three screws.
- (5) Remove the front chassis VL (43).





- 6 Remove the four screws.
- Disconnect the two pin connectors.
- 8 Unhook the six PCB spacers.
- Remove the 43 SCAN A and B Assys.



83

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7.2 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

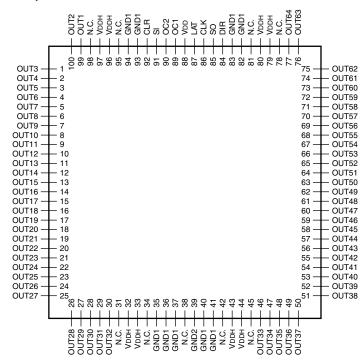
List of IC

SN755870PZT, TC7SH08FUS1, TC74VHC00FTS1, AXF1143, AXF1145, TC74VHC08FTS1, AXF1144, M62334FP, TC74VHC123AFTS1, PST3610UR, PEG122C, NJW1183L

■ SN755870PZT (43 SCAN A ASSY : IC2701 - IC2706) (43 SCAN B ASSY : IC2801 - IC2806)

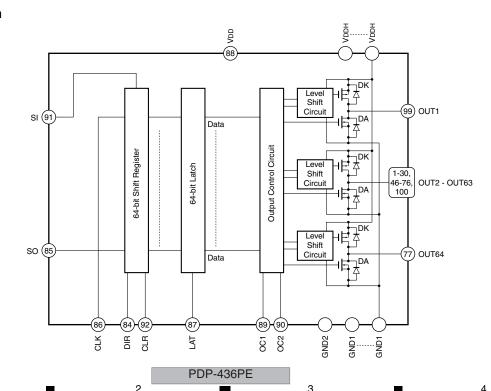
• Plasma Display Panel IC

Pin Arrangement (Top view)



Block Diagram

D



• Pin Function

5

| No. | Pin Name | I/O | Pin Function | | | | |
|---------------------------------|---------------|-----|--|--|--|--|--|
| 1 - 30 | OUT3 - OUT32 | 0 | High-voltage push-pull output | | | | |
| 31 | N.C. | _ | Not connected | | | | |
| 32 - 33 | VDDH | _ | High-voltage circuit supply | | | | |
| 34 | N.C. | - | Not connected | | | | |
| 35 - 37 | GND1 | - | Ground | | | | |
| 38 | N.C. | - | Not connected | | | | |
| 39 | GND2 | - | Ground | | | | |
| 40 - 41 | GND1 | - | Ground | | | | |
| 42 | N.C. | - | Not connected | | | | |
| 43 - 44 | VDDH | _ | High-voltage circuit supply | | | | |
| 45 | N.C. | - | Not connected | | | | |
| 46 - 77 | OUT33 - OUT64 | 0 | High-voltage push-pull output | | | | |
| 78 | N.C. | _ | Not connected | | | | |
| 79 - 80 | VDDH | - | High-voltage circuit supply | | | | |
| 81 | N.C. | _ | Not connected | | | | |
| 82 - 83 | GND1 | _ | Ground | | | | |
| 82 - 83 GND1 84 DIR 85 SO | | I | Setup of shift register shift direction L = Shift into reverse (SO \rightarrow SI) H = Shift forward (SI \rightarrow SO) | | | | |
| 85 | 85 SO | | Serial data input / output | | | | |
| 86 | CLK | I | Serial clock input Fetch SI or SO data to shift regist | er by CLK rise edge | | | |
| 87 | LAT | I | LAT data input L = Transfer shift register data to output latch H = H | lold data to output latch | | | |
| 88 | VDD | - | Logic supply | | | | |
| 89 | OC1 | I | Output control | OC1 OC2 OUT L L ALL Hi-Z | | | |
| 90 | OC2 | I | Control output according to the right truth value table | L H DATA H L ALL L H H ALL H | | | |
| 91 | SI | I/O | Serial data input / output | | | | |
| 92 | CLR | I | All output reset CLR pin : L \rightarrow Normal operation C | LR pin : H \rightarrow All output High | | | |
| 93 - 94 | GND1 | _ | Ground | | | | |
| 95 | N.C. | _ | Not connected | | | | |
| 96 - 97 | VDDH | _ | High-voltage circuit supply | | | | |
| 98 | N.C. | _ | Not connected | | | | |
| 99 - 100 | OUT1 - OUT2 | 0 | High-voltage push-pull output | | | | |

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PDP-436PE

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TC7SH08FUS1 (43 SCAN B ASSY : IC2807)

• 2-input AND Gate

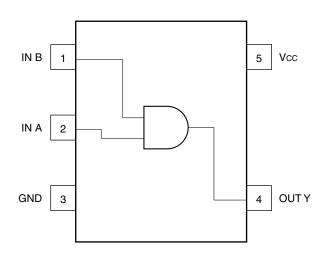
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• Pin Arrangement (Top view) / Block Diagram

• Truth Table

3

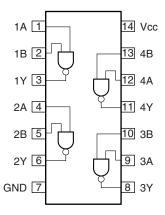


| Α | В | Υ |
|---|---|---|
| L | L | L |
| L | Н | L |
| Н | L | L |
| Н | Н | Н |

■ TC74VHC00FTS1 (43 X DRIVE ASSY : IC1002)

• Quad 2-Input NAND Gate

□ ● Block Diagram



• Truth Table

| Α | В | Υ |
|---|---|---|
| L | L | Н |
| L | Н | Н |
| Н | L | Н |
| Н | Н | L |

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86

PDP-436PE

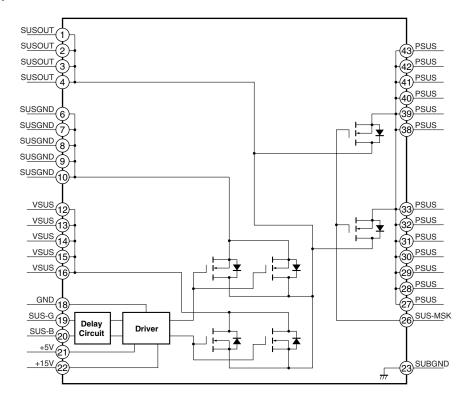
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■ AXF1143 (43 X DRIVE ASSY : IC1202)

• X Mask Module

5

Block Diagram

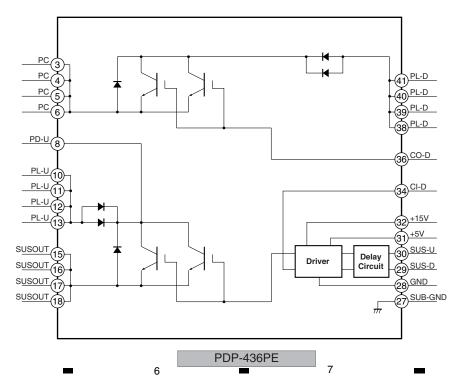


■ AXF1145 (43 X DRIVE ASSY : IC1101) (43 Y DRIVE ASSY : IC2101)

• DK Module

Block Diagram

5



87

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В

С

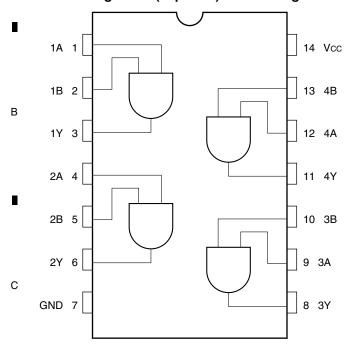
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■ TC74VHC08FTS1 (43 Y DRIVE ASSY : IC2003, IC2005)

• Quad 2-input AND Gate

• Pin Arrangement (Top view) / Block Diagram



• Truth Table

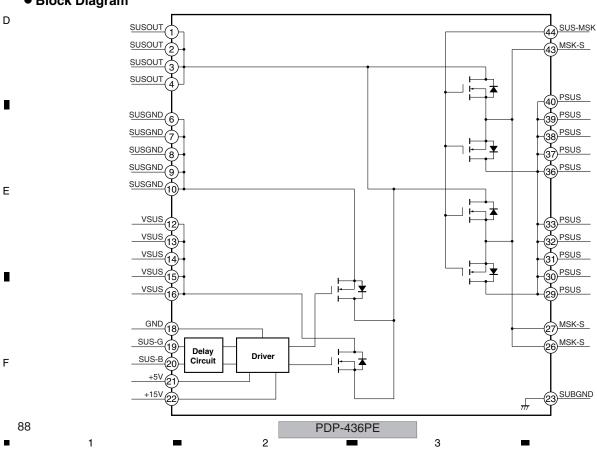
3

| Α | В | Υ |
|---|---|---|
| L | L | L |
| L | Н | L |
| Н | L | L |
| Н | Н | Н |

■ AXF1144 (43 Y DRIVE ASSY : IC2252, IC2253)

Y Mask Module

Block Diagram

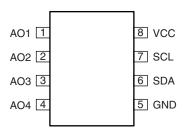


■ M62334FP (HD DIGITAL ASSY: IC3157)

• 8-bit 4ch I2C Bus D-A Converter with Buffer Amplifier

Pin Arrangement (Top view)

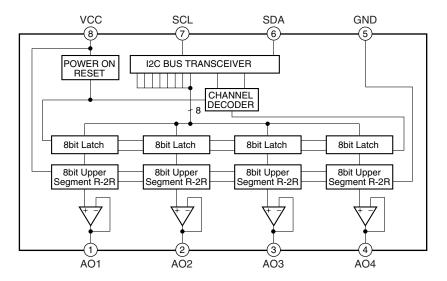
5



• Pin Function

| No. | Pin Name | Pin Function | | | |
|-------|----------|--|--|--|--|
| 1 | AO1 | | | | |
| 2 | AO2 | S hit recolution D. A conventor cutout | | | |
| 3 | AO3 | 8-bit resolution D-A converter output | | | |
| 4 | AO4 | | | | |
| 5 | GND | Ground | | | |
| 6 SDA | | Serial data input | | | |
| 7 | SCL | Serial clock input | | | |
| 8 | vcc | Power supply | | | |

Block Diagram

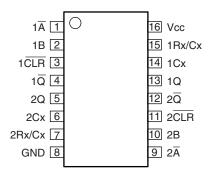


■ TC74VHC123AFTS1 (HD DIGITAL ASSY : IC3160)

• Dual Monostable Multivibrator/AFN/AFT Retriggerble

• Pin Arrangement (Top view)

5



Truth Table

| | Inputs | i | Out | puts | Note | | |
|---|--------|-----|-----|------|---------------|--|--|
| Ā | В | CLR | Q | Q | | | |
| ٦ | Н | Н | Л | T | Output enable | | |
| Х | | | L | Н | Inhibit | | |
| Н | н х н | | L | Н | Inhibit | | |
| L | | | Л | T | Output enable | | |
| L | Н | ſ | Л | T | Output enable | | |
| Х | Х | L | L | Н | Reset | | |
| | | | | | | | |

X: Don't care

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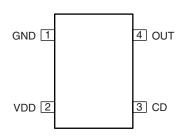
PDP-436PE

- - - - -

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■ PST3610UR (HD DIGITAL ASSY : IC3304) • Reset IC

• Pin Arrangement (Top view)

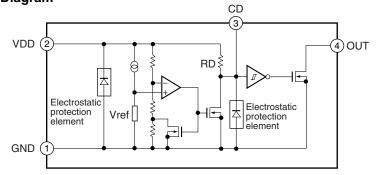


• Pin Function

| No. | Pin Name | Pin Function | | | | |
|-----|----------|----------------------------------|--|--|--|--|
| 1 | GND | Ground | | | | |
| 2 | VDD | Power supply / Voltage detection | | | | |
| 3 | CD | Capacitor connect pin for delay | | | | |
| 4 | OUT | Reset signal output | | | | |

Block Diagram

В

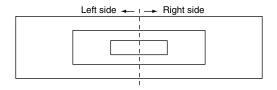


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■ PEG122C (HD DIGITAL ASSY : IC3401) • LSI for PDP video processing (SEQUENCE PROCESSOR)

• Pin Arrangement (Top view)



● Left side (Top view)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
|----|-------------|-------------|---------|-----------|-------------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|----|
| Α | BAI5 | GAI1 | GAI4 | GAI9 | RAI4 | RAI9 | BBI0 | BBI6 | GBI1 | GBI5 | RBI1 | RBI7 | TRNSEND1 | Α |
| В | BAI4 | GAI0 | GND33 | GAI8 | RAI3 | RAI8 | HDI | BBI5 | GBI0 | GDN33 | RBI0 | RBI6 | TRNSEND0 | В |
| С | BAI3 | BAI9 | VDD33 | GAI7 | RAI2 | RAI7 | VDI | BBI4 | BBI9 | VDD33 | GBI9 | RBI5 | VDD33 | С |
| D | BAI2 | BAI8 | GAI3 | GAI6 | RAI1 | RAI6 | DEI | BBI3 | BBI8 | GBI4 | GBI8 | RBI4 | RBI9 | D |
| Ε | BAI1 | BAI7 | GAI2 | GAI5 | RAI0 | RAI5 | DCLKI | BBI2 | BBI7 | GBI3 | GBI7 | RBI3 | RBI8 | E |
| F | BAI0 | BAI6 | PEAK | APLDT | THEATER | GND12 | VDD12 | BBI1 | VDD12 | GBI2 | GBI6 | RBI2 | VDD12 | F |
| G | XSCAN20 | XSCAN19 | XSCAN18 | XSCAN17 | XSCAN16 | VDD12 | | | | | | | | G |
| Н | XSCAN15 | XSCAN14 | XSCAN13 | XSCAN12 | XSCAN11 | VDDTC12 | | | | | | | | Н |
| J | XSCAN10 | GND33 | VDD33 | XSCAN9 | GNDTC12 | VDD12 | | | | | | | | J |
| Κ | XSCAN8 | XSCAN7 | XSCAN6 | XSCAN5 | XSCAN4 | VDDTC12 | | | | | | | | Κ |
| L | XSCAN3 | XSCAN2 | XSCAN1 | XSCAN0 | GND12 | VDD12 | | | | | GND12 | GND12 | GND12 | L |
| M | XSUS10 | XSUS9 | XSUS8 | XSUS7 | GNDTC12 | VDD12 | | | | | GND12 | GND12 | GND12 | М |
| N | XSUS6 | GND33 | VDD33 | XSUS5 | GND12 | VDD12 | | | | | GND12 | GND12 | GND12 | N |
| Ρ | XSUS4 | XSUS3 | XSUS2 | XSUS1 | XSUS0 | VDDTC12 | | | | | GND12 | GND12 | GND12 | Р |
| R | ADRS0 | ADRS1 | ADRS2 | ADRS3 | GNDTC12 | VDD12 | | | | | GND12 | GND12 | GND12 | R |
| Т | TEST_I0 | GND33 | VDD33 | TEST_I1 | TEST_I2 | TEST_R | | | | | GND12 | GND12 | GND12 | Т |
| U | TXOUTM063 | TXOUTP063 | GNDLA | VDDLA | GNDLA | VDDL12 | | | | | | | | U |
| ٧ | TXCLKOUTM06 | TXCLKOUTP06 | GNDLA | VDDLA | GNDLA | VDDLA | | | | | | | | ٧ |
| W | TXOUTM062 | TXOUTP062 | GNDLA | VDDLA | GNDLA | VDDLA | | | | | | | | W |
| Υ | TXOUTM061 | TXOUTP061 | GNDLA | VDDLA | GNDLA | VDDL12 | | | | | | | | Y |
| AA | TXOUTM060 | TXOUTP060 | GNDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA | AA |
| AΒ | TXOUTM073 | TXOUTP073 | GNDLA | VDDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | VDDBG | REFIN | AB |
| AC | TXCLKOUTM07 | TXCLKOUTP07 | GNDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | AC |
| AD | TXOUTM072 | TXOUTP072 | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | AD |
| ΑE | TXOUTM071 | TXOUTP071 | GNDLA | TXOUTP033 | TXCLKOUTP03 | TXOUTP032 | TXOUTP031 | TXOUTP030 | TXOUTP023 | TXCLKOUTP02 | TXOUTP022 | TXOUTP021 | TXOUTP020 | ΑE |
| ΑF | TXOUTM070 | TXOUTP070 | GNDLA | TXOUTM033 | TXCLKOUTM03 | TXOUTM032 | TXOUTM031 | TXOUTM030 | TXOUTM023 | TXCLKOUTM02 | TXOUTM022 | TXOUTM021 | TXOUTM020 | AF |

• Right side (Top view)

| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | _ |
|---|-----------|-------------|-----------|-----------|-----------|-----------|-------------|-----------|------------|-----------|---------|----------------|----------------|---|
| 4 | CLKD | VSSPA | EXDI011 | EXDI09 | EXA4 | EXA10 | EXA2 | EXA16 | EXA20 | CSCS_N1 | CSCS_N2 | CSIOSCK1 | CSIORXD | |
| 3 | CSRD_N | VCCPA | EXDI04 | GND33 | EXA3 | EXA9 | EXA1 | EXA15 | EXA19 | CSCS_N0 | GND33 | TCRAM_MONITOR0 | TCRAM_MONITOR1 | 1 |
| ; | CLKS | CLK_MONI | EXDI012 | VDD33 | EXDI00 | EXA8 | CSWR_N | EXA14 | EXA18 | UARTRXD | VDD33 | TCRAM_MONITOR2 | CSIORQ |] |
| | VSSPB | EXDI014 | EXDI05 | EXDI02 | EXDI08 | EXA7 | EXA0 | EXA13 | EXA17 | UARTTXD | CS10TXD | RESETX | SDIJTAG | |
| | VCCPB | EXDI07 | EXDI013 | EXDI010 | EXDI01 | EXA6 | EXA11 | EXA12 | CSEXWAIT_N | SDITRST_N | SDITCK | SDIDBI_N | SDITMS |] |
| | LPFMONI | EXDI015 | EXDI06 | EXDI03 | VDD12 | EXA5 | VDD12 | GND12 | SDITDO | SDITDI | GP1000 | GPI001 | GPI002 |] |
| | | | | | | | | VDD12 | GPI003 | GPI004 | GPI005 | GPI006 | GPI007 | |
| | | | | | | | | VDDTC12 | YSCAN20 | YSCAN19 | YSCAN18 | YSCAN17 | YSCAN16 | |
| | | | | | | | | VDD12 | GNDTC12 | YSCAN15 | VDD33 | GND33 | YSCAN14 | 1 |
| | | | | | | | | VDDTC12 | YSCAN13 | YSCAN12 | YSCAN11 | YSCAN10 | YSCAN9 | 1 |
| | GND12 | GND12 | GND12 | | | | | VDD12 | GND12 | YSCAN8 | YSCAN7 | YSCAN6 | YSCAN5 | 1 |
| | GND12 | GND12 | GND12 | | | | | VDD12 | GNDTC12 | YSCAN4 | YSCAN3 | YSCAN2 | YSCAN1 | 1 |
| | GND12 | GND12 | GND12 | | | | | VDD12 | GND12 | YSCAN0 | VDD33 | GND33 | VSUS10 |] |
| | GND12 | GND12 | GND12 | | | | | VDDTC12 | YSUS9 | YSUS8 | YSUS7 | YSUS6 | VSUS5 | 1 |
| | GND12 | GND12 | GND12 | | | | | VDD12 | GNDTC12 | YSUS4 | YSUS3 | YSUS2 | VSUS1 |] |
| | GND12 | GND12 | GND12 | | | | | YSUS0 | RSV1 | RSV0 | VDD33 | GND33 | AFE_PS_N | 1 |
| | | | | • | | | | VDDL12 | GNDLA | VDDLA | GNDLA | TXOUTP050 | TXOUTM050 |] |
| | | | | | | | | VDDLA | GNDLA | VDDLA | GNDLA | TXOUTP051 | TXOUTM051 | 1 |
| | | | | | | | | VDDLA | GNDLA | VDDLA | GNDLA | TXOUTP052 | TXOUTM052 | 1 |
| | | | | | | | | VDDL12 | GNDLA | VDDLA | GNDLA | TXCLKOUTP05 | TXCLKOUTM05 | 1 |
| | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA | VDDL12 | VDDLA | VDDLA | VDDLA | VDDLA | GNDLA | TXOUTP053 | TXOUTM053 | 1 |
| } | VREF12 | GNDBG | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | VDDLA | GNDLA | TXOUTP040 | TXOUTM040 | 1 |
| ; | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | VDDLA | GNDLA | TXOUTP041 | TXOUTM041 | 1 |
|) | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | GNDLA | TXOUTP042 | TXOUTM042 | 1 |
| | TXOUTP013 | TXCLKOUTP01 | TXOUTP012 | TXOUTP011 | TXOUTP010 | TXOUTP003 | TXCLKOUTP00 | TXOUTP002 | TXOUTP001 | TXOUTP000 | GNDLA | TXCLKOUTP04 | TXCLKOUTM04 | 1 |
| = | TXOUTM013 | TXCLKOUTM01 | TXOUTM012 | TXOUTM011 | TXOUTM010 | TXOUTM003 | TXCLKOUTM00 | TXOUTM002 | TXOUTM001 | TXOUTM000 | GNDLA | TXOUTP043 | TXOUTM043 | 1 |

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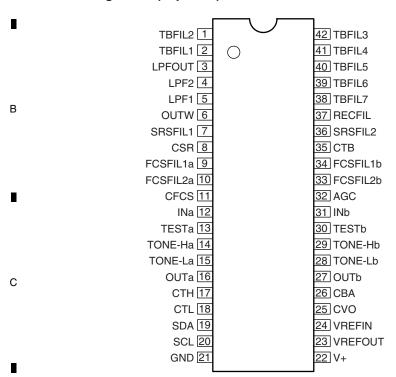
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1 2 3 4

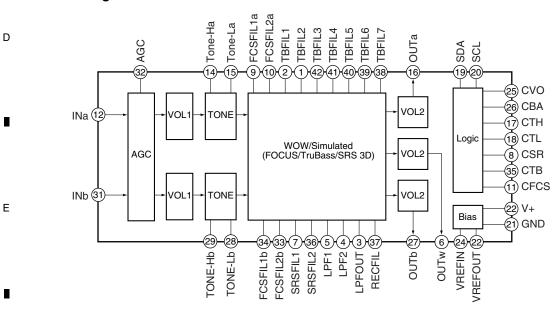
NJW1183L (HD AUDIO ASSY : IC3753)

• FOCUS & SRS IC

Pin Arrangement (Top view)



Block Diagram

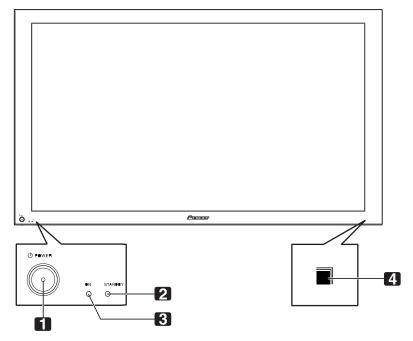


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8. PANEL FACILITIES

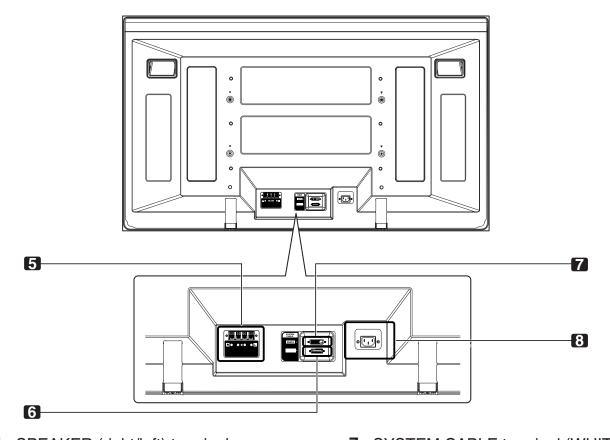
Front view



- 1 POWER button
- 2 STANDBY indicator

- 3 POWER ON indicator
- 4 Remote control sensor

Rear view



- 5 SPEAKER (right/left) terminals
- **6** SYSTEM CABLE terminal (BLACK)
- 7 SYSTEM CABLE terminal (WHITE)
- 8 AC IN terminal

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PDP-436PE

■ Jigs list

В

С

| Jig No. | Jig Name | Remarks |
|---------|------------------------------|-------------------------------|
| GGF1475 | Special Communication Device | See to "6.2 RS-232C COMMAND". |

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